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Hale,	N.A		
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From:

Ulm, John

Sent:

Wednesday, October 22, 2003 3:36 PM

To:

Hale, Mary

Subject:

RE: problem with search request for SN 09/851,494

OK, let's modify the search. I need a search of nucleotides 5500 to 7000 and 9000 to 9200 of SEQ ID NO:1, which contain specifically claimed diagnostic mutations outside of a coding region, as well as nucleotides 400 to 1500 of SEQ ID NO:2, which appears to be a coding region within SEQ ID NO:1 and which contains seven additional diagnostic mutations. If this presents a problem, I can divide SEQ ID NO:2 into fragments containing the specifically recited mutations.

----Original Message----

From: Hale, Mary

Sent: Tuesday, October 21, 2003 3:46 PM

To: Ulm, John

Cc: Martinell, James

Subject: RE: problem with search request for SN 09/851,494

Importance: High

per attached note

netace

10/22/03

10/22/03

10/22/03

10/22/03

10/20/03

10/20/03

10/20/03

10/20/03

10/20/03

STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher:	NA Sequence (#)	STN
Searcher Phone #:	AA Sequence (#)	Dialog
Searcher Location:	Structure (#)	Questel/Orbit
Date Searcher Picked Up:	Bibliographic	Dr.Link
Date Completed.	Litigation	Lexis/Nexis
Searcher Prep & Review Time:	Fulltext	Sequence Systems
Clencal Prep Time:	Patent Family	www/internet
Online Time:	Other	Other (specify)

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Sequence 13, Appl
Sequence 2, Appl
Sequence 2, Appl
Sequence 26, Appl
Sequence 24, Appl
Sequence 22, Appl
Sequence 14, Appl
Sequence 162, Appl
Sequence 45089, A
Sequence 2, Appl
Sequence 2, Appl
Sequence 2, Appl
Sequence 2, Appli
Sequence 2, Appli
Sequence 6, Appli
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(without alignments)
220.243 Million cell updates/sec
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                                                                                                                                         US-09-851-494B-3
3067
1 MTAPAGPRGSETERLLTPNP......CSLLCCCGRDPSEEHSLLVN 580
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                                                                                                                                                                                                                                                                                                                                                                                              Published Applications AA:*

1: /cgn2_6/ptodata/1/pubpaa/USO7_PUBCOMB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/DCT_NEW_PUB.pep:*

4: /cgn2_6/ptodata/1/pubpaa/USO6_NEW_PUB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/USO7_NEW_PUB.pep:*

6: /cgn2_6/ptodata/1/pubpaa/USO8_NEW_PUB.pep:*

7: /cgn2_6/ptodata/1/pubpaa/USO8_NEW_PUB.pep:*

8: /cgn2_6/ptodata/1/pubpaa/USO8_NEW_PUB.pep:*

9: /cgn2_6/ptodata/1/pubpaa/USO8_PUBCOMB.pep:*

10: /cgn2_6/ptodata/1/pubpaa/USO9_PUBCOMB.pep:*

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13: /cgn2_6/ptodata/1/pubpaa/USO9_NEW_PUB.pep:*

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15: /cgn2_6/ptodata/1/pubpaa/USO9_NEW_PUB.pep:*

16: /cgn2_6/ptodata/1/pubpaa/USO0_NEW_PUB.pep:*

17: /cgn2_6/ptodata/1/pubpaa/USO0_NEW_PUB.pep:*

18: /cgn2_6/ptodata/1/pubpaa/USO0_NEW_PUB.pep:*

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18: /cgn2_6/ptodata/1/pubpaa/USO0_NEW_PUB.pep:*
GenCore version 5.1.6
ght (c) 1993 - 2003 Compugen Ltd.
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10 US-09-965-529-13

11 US-09-965-529-13

14 US-10-103-458-2

14 US-10-103-458-2

15 US-10-114-153-26

16 US-10-114-153-26

17 US-10-114-153-24

2 US-10-114-153-24

2 US-10-114-153-24

2 US-10-114-153-22

1 US-09-866-050A-713

1 US-09-864-761-45089

4 US-10-005-211-2
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                                                                                                                                                                                                                                            segs, 167460630 residues
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Match 100%
first 45 summaries
                                                         protein search, using sw model
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and is derived by analysis
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Sequence 48727, A Sequence 32155, A Sequence 1, Appli Sequence 7, Appli Sequence 5, Appli Sequence 25, Appli Sequence 25, Appli Sequence 26, Appli Sequence 26, Appli
                                                                                                                                     Sequence 2, Appli
Sequence 12, Appl
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US-09-864-761-48727
US-10-029-386-32155
US-09-753-008-1
US-09-753-008-1
US-09-753-008-7
US-09-753-008-7
US-09-753-008-7
US-09-753-008-7
US-09-796-7208-5
US-09-864-761-44699
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US-09-868-160-12
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ALIGNMENTS

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RESULT 1
US-09-828-466-2

Sequence 2, Application US/09828466

Patent No. US20020035056A1

GENERAL INFORMATION:

APPLICANT: Curtis, Rory A.J.

APPLICANT: Silos-Santiago, Immaculada

TITLE OF INVENTION: 54420, A NOVEL HUMAN CALCIUM CHANNEL

CURRENT APPLICATION NUMBER: US/09/828,466

CURRENT FILING DATE: 2001-04-06

PRIOR FILING DATE: 2000-04-07

NUMBER OF SEQ ID NOS: 7

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 2

LENGTH: 580
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
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                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Homo sapiens
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US-09-828-466-2
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US-09-828-466-6 US-09-864-761-41295

AIFHAVDQYLALPDVSLGRYAYVRGGGDE WTDCIQVDPPERPPPSDDLTLLESSS	Sult 3 Sult 3 -09-969-680A-13 Sequence 13, Application US/09969680A Publication No. US20030124649A1 SERNEAL INFORMATION: APPLICANT: LAL, Preet; YUE, Henry APPLICANT: LAL, PREEDSON, Chandra APPLICANT: BAUGHN, Mariah R.; LU, Dyung Aina M. APPLICANT: BAUGHN, Mariah R.; LU, Dyung Aina M. APPLICANT: PATTERSON, Chandra TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS CURRENT PRILING DATE: 2001-10-02 PRIOR APPLICATION NUMBER: US00/22315 PRIOR PILING DATE: 1999-08-17 PRIOR PILING DATE: 1999-08-17 PRIOR PILING DATE: 1999-11-09 NUMBER OF SEQ ID NOS: 74 SOFTWARE: PERL PROGRAM SEQ ID NO 13 LENGTH: 580 TYPE: PRT ORGANISM: Homo sapiens	; NAME/KEY: misc_feature ; OTHER INFORMATION: Incyte ID No. US20030124649A1 977658CD1 US-09-969-680A-13 Query Match Best Local Similarity 100.0%; Score 3067; DB 11; Length 580; Best Local Similarity 100.0%; Pred. No. 2.4e-289; Matches 580; Conservative 0; Mismatches 0; Indels 0; Gaps 0; QY MTAPAGPRGSETERLLTPNPGYGTQAGPSPAPPTPPEEEDLRRRLKYFFMSPCDKFRAKG 60
Db 181 TFDIDPMVVTDCIQVDPPERCPPPSSDLTLLESSSSYKNLTLKFHKLVNVTIHFRLKTI 240 Qy 241 NLQSLINNEIPDCYTFSVLITPDNKAHSGRIPISLETQAHIGECKHPSVFQHGDNSFRLL 300 241 NLQSLINNEIPDCYTFSVLITPDNKAHSGRIPISLETQAHIGECKHPSVFQHGDNSFRLL 300 Qy 301 FDVVVILTCSLSFLLCARSLLRGFLLQNEFVGFWRRQRGRVISLWERLEFVNGWYILLVT 360 301 FDVVVILTCSLSFLLCARSLLRGFLLQNEFVGFWRRQRGRVISLWERLEFVNGWYILLVT 360 301 FDVVVILTCSLSFLLCARSLLRGFLLQNEFVGFWRRQRGRVISLWERLEFNNGWYILLVT 360 302 FDVVVILTCSLSFLLCARSLLRGFLLQNEFVGFWRRQRGRVISLWERLEFNNGWYILLVT 360 303 FDVVVILTCSLSFLLCARSLLRGFLLQNEFVGFWRRQRGRVISLWERLEFNNGWYILLVT 360 QY 361 SDVLTISGTIMKIGIEAKNLASYDVCSILLGTSTLLVWVGVIRYLTFFHNYNILIATLRV 420 QY 421 ALPSVMRFCCCVAVIYLGYCFCGMIVLGPYHVKFRSLSMVSECLFSLINGDDMFVTFAAM 480 DD 421 ALPSVMRFCCCVAVIYLGYCFCGMIVLGPYHVKFRSLSMVSECLFSLINGDDMFVTFAAM 480 QY 421 ALPSVMRFCCCVAVIYLGYCFCGMIVLGPYHVKFRSLSMVSECLFSLINGDDMFVTFAAM 480 QY 481 QAQQGRSSLVWLFSQLYLYSFISLFIYMVLSLFIALITGAVDTIKHPGGAGBESSELQAY 540 QY 541 IAQCQDSFTSGKFRRGSGSACSLLCCCGRDPSEEHSLLVN 580 541 LAQCQDSFTSGKFRRGSGSACSLLCCCGRDPSEEHSLLVN 580	RESULT 2 US-09-965-529-13 US-09-965-529-13 Sequence 13, Application US/09965529 Publication No. US20020182671Al GENERAL INFORMATION: APPLICANT: However APPLICANT: PARC, Y. Tom APPLICANT: BANDMAN, Olga APPLICANT: BANDMAN, Olga APPLICANT: BANDMAN, Olga APPLICANT: APPLICANT: ANDMAN, Olga APPLICANT: APPLICANT: ANDMAN, Olga APPLICANT: APPLICANT: ANDMAN MARIAN R. APPLICANT: APPLICANT: ANDMEN NATION NATION R. APPLICANT: APPLICANT: ANDMEN NATION R. APPLICANT: BANDMAN Chandra ITLE OF INVENTION: MONBER: US/09/965,529 CURRENT APPLICATION NUMBER: 60/149,641; 60/164,203; PCT/USO0/22315 PRIOR APPLICANT: APPLICATION NUMBER: 60/149,641; 60/164,203; PCT/USO0/22315 NUMBER OF SEQ ID NOS: 74 SOFTWARE: PERL PROGRAM SOFTWARE: PERL PROGRAM SED ID NO 13 LENGTH: 580 LENGTH: 580 LENGTH: 580 CARRISH: HOMO SADIENS PRANTER: NAME/KEST: MISC feature NAME/KEST: MISC feature US-09-965-529-13	Query Match 100.0%; Score 3067; DB 10; Length 580; Best Local Similarity 100.0%; Pred. No. 2.4e-289; O; Gaps 0; Matches 580; Conservative 0; Mismatches 0; Indels 0; Gaps 0; QY

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241 NLQSLINNEIPDCYTFSVLITFDNKAHSGRIPISLETQAHIQECKHPSVFQHGDNSFRLL
                                              SDVLTISGTIMKIGIBAKNLASYDVCSILLGTSTLLVWVGVIRYLTFFHNYNILIATLRV
                                                                                                  SDVLTISGTIMKIGIEAKNLASYDVCSILLGTSTLLVWVGVIRYLFFHNYNILIATLRV
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NAME/KEY: SITE
LOCATION: (135)
CTHER INFORMATION: Xaa equals any of the naturally occurring
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Best Local Similarity 99.2%; Pred. No. 2.5e-250;
Matches 507; Conservative 1; Mismatches 3;
                                                                                                                                                                                                                                                                       RESULT 5
US-09-820-893-63
i Sequence 63, Application US/09820893
; Patent No. US20020076705A1
; GENERAL INFORMATION:
i APPLICANT: Rosen et al.
i TITLE OF INVENTION: 31 Human Secreted Proteins
i FILE REFERENCE: PZ033P1
CURRENT APPLICATION NUMBER: US/09/820,893
CURRENT FILING DATE: 2001-03-30
; PRIOR PILING DATE: 2000-03-20
; PRIOR FILING DATE: 1998-10-02
; PRIOR FILING DATE: 1998-10-02
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 63
; LENGTH: 511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
ORGANISM: Homo sapiens
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Best Local Similarity 100.0%; Score 3067; DB 14; Length
Matches 580; Conservative 0; Mismatches 0; Indels
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US-10-103-458-2
; Sequence 2, Application US/10103458
; Publication No. US20020197680A1
; GENERAL INFORMATION:
; TITLE OF INVENTION: 54420, A NOVEL HUMAN CALGERIE REFERENCE: MNI-125
; CURRENT APPLICATION NUMBER: US/10/103,458
; CURRENT FILING DATE: 2002-03-22
; PRIOR FILING DATE: PEIOE FILING DATE: 2000-67
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: Patentin Ver: 2.0
; SEQ ID NO 2
; LENGTH: 580
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-103-458-2
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                                                         Wrapper
                                                         File
PRIOR FILING DATE: 2001-04-13
PRIOR APPLICATION NUMBER: 60/283678
PRIOR FILING DATE: 2001-04-13
PRIOR APPLICATION NUMBER: 60/284234
PRIOR APPLICATION NUMBER: 60/284234
PRIOR APPLICATION OUMBER: 60/284234
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PRIOR APPLICATION OUMBER: 60/284234
PRIOR APPLICATION AGAIN TEMOVED - See F
NUMBER OF SEQ ID NOS: 251
SEQ ID NO 26
LENGTH: 538
TYPE: PRT
CRGANISM: Homo sapiens
US-10-114-153-26
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APPLICANT: Padigaru, Muralidhara
APPLICANT: Kekuda, Ramesh
APPLICANT: Rastelli, Luca
APPLICANT: Rastelli, Luca
APPLICANT: Smithson, Glennda
APPLICANT: Guo, Xiaojia
APPLICANT: Gerlach, Valerie
APPLICANT: Casman, Stacie
APPLICANT: Boldog, Ferenc
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APPLICANT: Mazur, Ann
TITLE OF INVENTION: NOVEL ANTIBODIES THAT BIND TO ANTIGENIC POLYPEPTIDES, NUCLEIC ACTIVE OF INVENTION: ENCODING THE ANTIGENS, AND METHODS OF USE
FILE REFERENCE: 21402-322A
CURRENT APPLICATION NUMBER: US/10/114,153
CURRENT FILING DATE: 2002-08-06
                                                                                                                                                                             385 STLLVWVGVIRYLGYFQAXNVLILTMQASLPKVLRFCACAGMIYLGYTFCGWIVLGPYHD 444
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              265 FDSDAKIBECKDINIFGSAQKNAQYVLVFDAFVIVICLASLILCTRSIVLALRLRKRFLN 324
                                                                                      325 FFLEKYKRPVCDTDQWEFINGWYVLVIISDLMTIIGSILKMEIKAKNLTNYDLCSIFLGT
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                                                             FMWRORGRVISLWERLEFVNGWYILLVTSDVLTISGTIMKIGIEAKNLASYDVCSILLGT
                                                                                                                                                                                                                                                                                                                                          513 FIALITGAYDTIKHPGGAGAEBSELQAYIAQCQDSPTSGKFRRGSGSACSLLCCCGRDPS
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PRIOR APPLICATION NUMBER: 60/281086
PRIOR FILING DATE: 2001-04-03
PRIOR FILING DATE: 2001-04-03
PRIOR APPLICATION NUMBER: 60/281906
PRIOR FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: 60/282020
PRIOR FILING DATE: 2001-04-06
PRIOR FILING DATE: 2001-04-10
PRIOR FILING DATE: 2001-04-10
PRIOR FILING DATE: 2001-04-10
PRIOR FILING DATE: 2001-04-12
PRIOR FILING DATE: 2001-04-12
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Heyes, Melvyn
Ju, Jingfang
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APPLICANT: Shenoy, Suresh
APPLICANT: Kekuda, Ramesh
APPLICANT: Rastelli, Luca
APPLICANT: Rastelli, Luca
APPLICANT: Smithson, Glennda
APPLICANT: Smithson, Glennda
APPLICANT: Guo, Xiaojia
APPLICANT: Gerlach, Valerie
APPLICANT: Casman, Stacie
APPLICANT: Boldog, Ferenc
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Zerhusen, Bryan
Tchernev, Velizar
Gangolli, Esha
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Catterton, Elina
MacDougall, John
Edinger, Shlomit
Stone, David
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Miller, Charles
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Spytek, Kimberly
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APPLICANT: Li, Li
APPLICANT: Carbusen, Bryan
APPLICANT: Carbusen, Paryan
APPLICANT: Carbusen, Velizar
APPLICANT: Carbusen, Velizar
APPLICANT: Carbusen, Velizar
APPLICANT: Velica Carbusen, Velizar
APPLICANT: Velica Carbusen, Velica Carbusen, Velica Carbusen, Velica Carbusen, Velica Carbusen, Velica Carbusen, Carbuse
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                                                                                                                                                                                                                                                                                                                                                                        306 ILTCSLSFLLCARSLLRGFLLQ-----NEFVGFMWRQRGRVISLWERLEFVNGWYILLVT
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                                                                                                                                                                                                                                                               69;
        /; TYPE: PRT
ORGANISM: Homo sapiens
/; FEATURE:
/ OTHER INFORMATION: MAP TO AC013291.4
/; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 0.5
/; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.57
/; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.46
/; OTHER INFORMATION: EST HUMAN HIT: N41861.1, EVALUE 5.00e-28
/; OTHER INFORMATION: SWISSPROT HIT: Q13563, EVALUE 7.00e-03
US-09-864-761-45089
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; Publication No. US20020194636A1
; Publication No. US20020194636A1
; GENERAL INFORMATION:
    APPLICANT: Allen, Keith D.
    TITLE OF INVENTION: TRANSGENIC MICE CONTAINING
    TITLE OF INVENTION: POLYCYSTIN-RELATED GENE DISRUPTIONS
    FILE REFERENCE: R-325
    CURRENT APPLICATION NUMBER: US/10/005,211
    CURRENT FILING DATE: 2001-12-04
    PRIOR FILING DATE: 2000-12-13
    PRIOR FILING DATE: 2000-12-04
    NUMBER OF SEQ ID NOS: 4
    SOFTWARE: FastSEQ for Windows Version 4.0
    SEQ ID NO 2
    LENGTH: 621
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                                                                                                                                                                                                                                                        Score 281.5; DB 9;
Pred. No. 1.1e-19;
6; Mismatches 6;
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Best Local Similarity 79.2%;
Matches 57; Conservative (
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US-03-64-781-4009

10S-03-64-781-4009

10S-03-64-781-4009

10S-03-64-781-4009

APPLICANT: Panh. David A.

APPLICANT: David A.

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          Gaps
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        Indels
      31;
      Mismatches
     31;
 Conservative
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ORGANISM: Homo sapiens
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Best Local Similarity
Matches 28; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                  Length 966;
US-09-828-466-6

Sequence 6, Application US/09828466

Patent No. US20020035056A1

GENERAL INFORMATION:

APPLICANT: Curtis, Rory A.J.

APPLICANT: Silos-Santiago, Immaculada

TITLE OF INVENTION: 54420, A NOVEL HUMAN CALCIUM CHANNEL

FILE REFERENCE: MNI-125CP

CURRENT APPLICATION NUMBER: US/09/828,466

CURRENT FILING DATE: 2001-04-06

PRIOR PILING DATE: 2000-04-07

NUMBER OF SEQ ID NOS: 7

SOFTWARE: Patentin Ver. 2.0

LENGTH: 966

TYPE: PRT

ORGANISM: Homo sapiens

US-09-828-466-6
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21.3%; Pred. No. 1.8e-05;
Live 49; Mismatches 104;
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US-09-864-761-41295
US-09-864-761-41295
Sequence 41295, Application US/09864761
Patent No. US20020048763A1
GENERAL INFORMATION:
APPLICANT: Penn, Sharron G.
APPLICANT: Rank, David R.
APPLICANT: Rank, David R.
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE E:
TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY ITLE OF INVENTION WUMBER: US/09/864,761
CURRENT APPLICATION NUMBER: US 60/180,312
PRIOR PILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR PILING DATE: 2000-06-26
PRIOR PILING DATE: 2000-06-27
PRIOR FILING DATE: 2000-06-3
PRIOR FILING DATE: 2000-06-4
PRIOR FILING DATE: 2000-09-27
PRIOR FILING DATE: 2000-09-27
PRIOR FILING DATE: 2000-09-27
PRIOR FILING DATE: 2001-01-30
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Best Local Similarity 21.3%
Matches 59; Conservative
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OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.4

OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 2.1

OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2.2

OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 2.6

OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.2

OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.1

OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.2

OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.2
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PRIOR APPLICATION NUMBER: PCT/USO1/00664

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/USO1/00669

PRIOR FILING DATE: 2001-01-30

PRIOR PPLICATION NUMBER: PCT/USO1/00662

PRIOR FILING DATE: 2001-01-30

PRIOR FILING DATE: 2001-01-30

PRIOR FILING DATE: 2001-01-30

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: US 60/234,687

PRIOR APPLICATION NUMBER: US 09/608,408

PRIOR FILING DATE: 2000-09-21

PRIOR FILING DATE: 2000-09-21

PRIOR PILING DATE: 2000-09-21

PRIOR PILING DATE: 2000-09-30

PRIOR FILING DATE: 2000-09-31

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: US 09/774,203

PRIOR FILING DATE: 2001-01-29

NUMBER OF SEQ ID NOS: 49117

SEQ ID NO 41295

LENGTH: 76
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27, 2003, 17:43:58; Search time 90 Seconds (without alignments) 1663.006 Million cell updates/sec
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1 MTAPAGPRGSETERLLTPNP......CSLLCCCGRDPSEEHSLLVN 580
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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SUMMARIES

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Result No.	Score	% Query Match	* Query Match Length DB	B	ΠD	Description
	3067	100.0	580	4	Q9GZU1	O9qzul homo sapien
8	3059	99.7	580	4	O9H4B3	homod
m	2884.5	94.0	581	び	Q9H292	Q9h292 homo sapien
4	2820	91.9	580	11	099J21	Q99j21 mus musculu
Ŋ	1859.5	60.6	545	4	Q9H4B5	Q9h4b5 homo sapien
φ	1628.5	53.1	594	11	Q8BS73	Q8bs73 mus musculu
1	1626.5	53.0	553	1	Q8R4F0	Q8r4f0 mus musculu
Φ	1626.5	53.0	591	11	Q8BSG1	Q8bsg1 mus musculu
თ	1623.5	52.9	593	11	Q8CDB2	Q8cdb2 mus musculu
10	1621	52.9	553	4,	Q8TDD5	Q8tdd5 homo sapien
디	1396	45.5	497	4	60NN60	Q9nv09 homo sapien
12	1374	44.8	538	4,	Q81ZK6	Q8izk6 homo sapien
13	1335	43.5	538	11	69CQD3	Q9cqd3 mus musculu
14	1335	43.5	995	11	Q8K595	Q8k595 mus musculu
15	1332	43.4	538	11	Q8K2T6	Q8k2t6 mus musculu
16	1025.5	33.4	652	Ŋ	Q9VW35	Q9vw35 drosophila

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ALIGNMENTS

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Okamoto S.,
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Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto & Okitani R., Ota T., Suzuki Y., Obayashi M., Nishi T., Shibahara T., Tanaka T., Nakamura Y., Isogai T., Sugano S.;

"NEDO human cDNA sequencing project.";
Submitted (AUG-2000) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=20485419; PubMed=11030752; MEDLINE=20485419; PubMed=11030752; Sun M., Goldin E., Stahl S., Falardeau J.L., Kennedy J.C., Acierno J.S. Jr., Bove C., Kaneski C.R., Nagle J., Bromley M.C., Colman M., Schiffmann R., Slaugenhaupt S.A.; "Mucolipidosis type IV is caused by mutations in a gene encoding a novel transient receptor potential channel."; Hum. Mol. Genet. 9:2471-2478(2000).
                                                                                                                                                                                      Homo sapiens (Human).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                   01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Hypothetical protein FLJ22449 (Mucolipin) (Mucolipidosis type IV protein) (Mucolipin 1).
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MEDLINE=20428196; PubMed=10973263;
Bargal R., Avidan N., Ben-Asher E., Olender Z., Zeigler M.,
Frumkin A., Raas-Rothschild A., Glusman G., Lancet D., Bach G.;
"Identification of the gene causing mucolipidosis type IV.";
Nat. Genet. 26:118-121(2000).
                                   580 AA
                                   PRT;
                                   PRELIMINARY;
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NCBI_TaxID=9606;
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Best Local Similarity 99.8
Matches 579; Conservative
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       Mammalia; Eutheria;
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Chordata, Craniata, Vertebrata, Euteleostomi,
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TISSUE=Brain;
Strausberg R.;
Submitted (MAR-2001) to the EMBL/GenBank/DDBJ databases.
BMBL; AK026102; BAB15360.1; -.
EMBL; AK287269; AAG00797.1; -.
EMBL; AF287270; AAG00798.1; -.
EMBL; AF249319; AAG10422.1; -.
EMBL; BC005149; AAH05149.1; -.
EMBL; BC005149; AAH05149.1; -.
EMBL; BC005111; Cat_channel_TrpL.
InterPro; IPR00521; Ion_trans.
InterPro; IPR00531; Ion_trans.
Pfam; PF00520; ion_trans; 1.
PROSITE; PS00120; IIPASE SER; 1.
Hypothetical protein; Ionic channel; Transmembrane.
SEQUENCE 580 AA; 65022 MW; 7E7691F58D01C804 CRC64;
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                     to the EMBL/GenBank/DDBJ databases
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larity 100.0%; Pred. No. 5.9e-265;
Conservative 0; Mismatches 0;
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                                              P SEQUENCE FROM N.A.

MEDLINE=20489855; PubMed=11013137;

A Bassi M.T., Manzoni M., Monti E., Pizzo M.T., Ballabio A., Borsani G.;

Cloning of the gene encoding a novel integral membrane protein,

mucolipidin, and identification of the two major founder mutations

causing mucolipidosis type IV.";

Am. J. Hum. Genet. 67:1110-1120(2000).

EMBL; AJ293970; CAC08215.1; -.

IN EMBL; AJ293970; CAC08215.1; -.

IN InterPro; IPR00521; Ion_trans.

InterPro; IPR00734; Libase.

PROSITE; PS00120; ion_trans; 1.

PROSITE; PS00120; IIPASE SER; 1.

NR Ionic channel; Transmembrane.

SEQUENCE 580 AA; 65012 MW; 6CE6E3645D010705 CRC64;
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99.8%; Pred. No. 3.1e-264;
live 0; Mismatches 1;
Catarrhini;
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                                                                              P SEQUENCE FROM N.A.

X MEDLINE=20428196; PubMed=10973263;

Bargal R., Avidan N., Ben-Asher E., Clender Z., Zeigler M., Arumkin A., Raas-Rothschild A., Glusman G., Lancet D., Bach G.;

A Frumkin A., Raas-Rothschild A., Glusman G., Lancet D., Bach G.;

I lacentification of the gene causing mucolipidosis type IV.";

I sembl, AF305572; AAG42242.1; Joined.

REMBL, AF305573; AAG42242.1; Joined.

REMBL, AF305574; AAG42242.1; Joined.

REMBL, AF305575; AAG42242.1; Joined.

REMBL, AF305575; AAG42242.1; Joined.

REMBL, AF305575; AAG42242.1; Joined.

REMBL, AF305576; A
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Catarrhini; Hominidae; Homo
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ilarity 94.9%; Pred. No. 1.1e-248;
Conservative 5; Mismatches 16;
                 Chordata;
Primates;
  Homo sapiens (Human)
Eukaryota, Metazoa,
Mammalia, Eutheria,
NCBI_TaxID=9606;
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STRAIN=C57BL/61;
XT TISSUE=Discreptablon, Extraembryonic tissue, Placenta, and Spinal cord; X The FANTOM Consortium, the FANTOM Consortium, the RANTOM Consortium, and the RANTOM Consortium, the RANTOM Consortium, the RANTOM Consortium, and the RANT
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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
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Best Local Similarity 91.4%; Pred. No. 6.5e-243;
Matches 530; Conservative 18; Mismatches 32;
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ON MUS MUSCULUS (MOUSE).

ON MUST TAXID=10090;

RN 11 TAXID=10090;

RN 5EQUENCE FROM N.A.

TISSUE=Breast tumor;

RN 5EQUENCE FROM N.A.

RA STAUSDEROR R.A.

RA STAUSDEROR R.A.

RA SCOUENCE FROM N.A.

RA STAUSDEROR N.A.

RA Goldin E., Slaugenhaupt S.A.;

RA Goldin E., Slaugenhaupt S.A.;

RN (3)

RP SEQUENCE FROM N.A.

RA Cloning and characterization R.

RN (3)

RN SEQUENCE FROM N.A.

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RANDING ARGISSS; AAHOS651.1; -.

DR EMBL; AKO28385; BAC25922.1; -.

DR EMBL; AKO38381; BAC25922.1; -.

DR EMBL; AKO38381; Lipase.

DR HILEPPRO; IPRO0511; CALCHAMN

DR INTERPRO; IPRO0511; CALCHAMN

DR INTERPRO; IPRO0520; ion trans; I.

DR PROSITE; PSO0120; LIPASE ESR;

KW IONIC CHANNEL; RANSWENDELANDER.

RANDING SSO0120; LIPASE ESR;

KW IONIC CHANNEL;

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SEQUENCE FROM N.A.
STEQUENCE FROM N.A.
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STEQUENCE 22354683; PubMed=12466851;
The FANTOM Consortium,
the RIKEN Genome Exploration Research Group Phase I & II Team;
the RIKEN Genome Exploration Research Group Phase I & II Team;
"Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs.";
Nature 420:563-573(2002).
EMBL; AK035029; BAC28916.1; -.
NON TER
     YLYSFISLFIYMVLSLFIALITGAYDTIKHPGGAGAEESELQAYIAQCQDSPTSGKFRRG
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                                                                                                                                                                                                                                                                                                                                                                               594 AA; 68259 MW; 958DA443C786E45C CRC64;
                                                                                                                  QBBS73 PRELIMINARY; PRT; 594 AA.
QBBS73;
01-MAR-2003 (TrEMBLrel. 23, Created)
01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Weakly similar to MUCOLIFIDIN (Fragment).
Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Bu Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; NCBI TaxID=10090;
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Sciurognathi; Muridae;
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MEDLINE=20489855; PubMed=11013137;

Bassi M.T., Manzoni M., Monti E., Pizzo M.T., Ballabio A., Borsani G
"Cloning of the gene encoding a novel integral membrane protein,
mucolipidin, and identification of the two major founder mutations
T ausing mucolipidosis type IV.";

Am. J. Hum. Genet. 67:1110-1120(2000).

EMBL; AJ293659; CAC07813.1; -.

InterPro; IPR005821; Ion_trans.

R InterPro; IPR005821; Ion_trans.

R Pfam; PF00520; ion_trans; 1.

W Ionic channel; Transmembrane.

SEQUENCE 545 AA; 60608 MW; 55179F72029D65C3 CRC64;
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Chordata; Craniata; Vertebrata; Buteleostomi;
Primates; Catarrhini; Hominidae; Homo.
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Last sequence update)
Last annotation update)
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Pred. No. 3e-157;
2; Mismatches 5
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Q9H4B5,
01-MAR-2001 (TrEMBLrel. 16, C
01-MAR-2001 (TrEMBLrel. 16, L
01-OCT-2002 (TrEMBLrel. 22, L
Mucolipidin.
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Best Local Similarity 93.8%;
Matches 360; Conservative
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Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=9606;
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annotation
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Best Local Similarity 55.5%; Pred. No. 2.1e-136;
Matches 313; Conservative 90; Mismatches 122; Indels 39;
                                                                                                                                                                                                                                                                                                                                                                                STRAIN=C57BL/6J; TISSUE=Mesonephros;
MEDLINE=22354683; PubMed=12466851;
The FANTOM Consortium,
the RIKEN Genome Exploration Research Group Phase I & II
"Analysis of the mouse transcriptome based on functional
60,770 full-length cDNAs.";
Nature 420:563-573 (2002).
EMBL; AK033008; BAC28123.1; -.
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                                                                                                                                                                                                                            QBBSG1;
01-MAR-2003 (TrEMBLrel. 23, Created)
01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Weakly similar to MUCOLIPIDIN (Fragment).
Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; E
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae;
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                                                                                                                                                                                                                                                                                 Slaugenhaupt
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RL Proc. Natl. Acad. Sci. U.S.A. 99:14994-14999(2002).

DR EMBL; AF475086; AAL84623.1; -..

DR MGD; MGI:1890500; Mcoln3.

DR InterPro; IPR002111; Cat_channel_TrpL.

DR Pfam; PF00520; ion_trans.

NR Pfam; PF00520; ion_trans.

V Ionic channel; Transwembrane.

Ouer...
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3 gene.";
EMBL/GenBank/DDBJ databases
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Sciurognathi; Muridae;
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Last sequence update)
Last annotation update)
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STRAIN=C57BL/6J;
MEDLINE=22317414; PubMed=12403827;
Di Palma F., Belyantseva I.A., Kim H.J.,
Noben-Trauth K.;
"Mutations in Mcoln3 associated with deafin varitint-waddler (Va) mice.";
                                                                                     553
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PSSSPSEQLLL-----
                                                                                                                                                                                           Chordata; (Rodentia; (
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STRAIN=C57BL6/J;
Falardeau J.L., Kennedy J.C.,
"Cloning of the mouse Mcoln3 g
                                                                                                           01-JUN-2002 (TrEMBLrel. 21,
01-JUN-2002 (TrEMBLrel. 21,
01-MAR-2003 (TrEMBLrel. 23,
Mucolipin-3.
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Eukaryota; Metazoa; C
Mammalia; Eutheria; Ri
NCBI_TaxID=10090;
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01-OCT-2002 (TrEMBLrel. 22,
Mucolipin-3.
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SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUB=Thymus;
MEDLINE=22354683; PubMed=12466851;
The FANTOM Consortium,
the FANTOM Consortium,
the RIKEN Genome Exploration Research Group Phase I & II Team;
Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs.";
Nature 420:563-573(2002).
EMBL; AK030819; BAC27146.1; -.
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01-MAR-2003 (TrEMBLrel. 23, Created)
01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Weakly similar to MUCOLIPIDIN (Fragment).
Mus musculus (Mouse)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Butheria; Rodentia; Sciurognathi; Muridae
NCBI TaxID=10090;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Falardeau J.L., Kennedy J.C., Acierno J.S., Slaugenhaupt "Cloning of the MCOLN3 gene.";
Submitted (JAN-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; AF475085; AAL84622.1; -.
InterPro; IPR002111; Cat channel TrpL.
InterPro; IPR005821; Ion trans.
Pfam; PF00520; ion trans; 1.
Ionic channel; Transmembrane.
SEQUENCE 553 AA; 64247 MW; 2E63DA196379F9B3 CRC64;
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                   Created)
Last sequence update)
Last annotation update)
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NCBI_TaxID=9606;
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                                                                                                                                                                                                             Isogai T., Ota T., Hayashi K., Sugiyama T., Otsuki T., Suzuki Y.,

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Tanase T., Nomura Y., Togiya S., Komai F., Hara R., Takeuchi K.,

Arita M., Nabekura T., Ishii S., Kawai Y., Saito K., Yamamoto J.,

Wakamatsu A., Nakamura Y., Nagahari K., Masuho Y., Oshima A.;

T., NEDO human cDNA sequencing project.";

Submitted (FEB-2000) to the BMBL/GenBank/DDBJ databases.

R. EMBL, AKO01868; BAA91951.1;

InterPro; IPR00511; Cat channel_TrpL.

R. InterPro; IPR00520; Ion_trans.

R. Pfam; PF00520; ion_trans; I.

W Hypothetical protein; Ionic channel; Transmembrane..

O SEQUENCE 497 AA; 57739 MW; 3128395B50E5890D CRC64;
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Chordata; Craniata; Vertebrata; Buteleostomi;
Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                          Length 497;
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Best Local Similarity 51.2%; Pred. No. 6.1e-116;
Matches 277; Conservative 78; Mismatches 108; Indels
                                                                        090V09;
01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
Hypothetical protein FLJ11006.
Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae
ICI
                                                                   497 AA
                                                                   PRT;
                                                                   PRELIMINARY;
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TISSUE=Placenta;
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EMBL; AY083533; AAM08926.1; -. SEQUENCE 538 AA; 62684 MW; 1BCCB92F8D6C83C4 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STLLVWVGVIRYLGYFQAYNVLILTWQASLPKVLRFCACAGMIYLGYFCGWIVLGPYHD
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 48.9%; Pred. No. 6.2e-114;
Matches 268; Conservative 115; Mismatches 143; Indels 2;
                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
MEDLINE=22317414; PubMed=12403827;
Di Palma F., Belyantseva I.A., Kim H.J., Vogt T.F.,
Noben-Trauth K.;
                                       23, Created)
23, Last sequence update)
23, Last annotation update)
 538 AA
PRT;
PRELIMINARY;
                  Q81ZK6;
01-MAR-2003 (TrEMBLrel.
01-MAR-2003 (TrEMBLrel.
01-MAR-2003 (TrEMBLrel.
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SECOENCE FROM STITESUB-Embryo, and Embryonic liver;

STRAINN=CSTBL/60; PubMed=11217851;

Rawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,

Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,

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A Azawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,

RA Aizawa K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,

RA Redota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,

RA Ruehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,

RA Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,

RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,

Brownstein M.J., Bult C., Fletcher C., Flujita M., Gariboldi M.,

Brownstein M.J., Bult C., Fletcher C., Flujita M., Gariboldi M.,

Brownstein M.J., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,

RA Gustincich S., Hill D., Hofmann M., Mazzarelli J., Mombaerts P.,

RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Sakamoto N.,

RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,

RA Suzuki H., Toyo-oka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,

Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Mutations in Mcoln3 associated with deafness and pigmentation defects in varitint-waddler (Va) mice.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TIAFRHLFLLGYSDGADDTFAA--YTREOLYOAIFHAVDQYLALPDVSLGRYAYVRGGGD
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                                                                                                                                                                                                   Chordata, Craniata, Vertebrata, Euteleostomi, Rodentia, Sciurognathi, Muridae, Murinae, Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          tion of a full-length mouse cDNA collection."; (2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRAIN=C57BL/6J;
MEDLINE=22317414; PubMed=12403827;
Di Palma F., Belyantseva I.A., Kim H.J., Vogt T.F., Kachar B.,
Noben-Trauth K.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          43.5%; Score 1335; DB 11; Length 538;
49.3%; Pred. No. 1.9e-110;
live 101; Mismatches 150; Indels 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                L. varitint-waddler (Va) mice.";
REMBL; AK019454; BAB31730.1; -.
REMBL; AK014467; BAB237730.1; -.
REMBL; AK014467; BAB2372.1; -.
REMBL; AY083532; AAM08925.1; -.
REMBL; AY083529; 33000022004Rik.
InterPro; IPR00211; Cat_channel_TrpL.
InterPro; IPR005821; Ion_trans.
Pfam; PF00520; ion_trans.
Ionic channel; Transmembrane.
SEQUENCE 538 AA; 62269 MW. carrell.
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                                                                           01-JUN-2001 (TrEMBLrel. 17, Created)
01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
01-JUN-2003 (TrEMBLrel. 23, Last annotation update)
3300002C04Rik protein (Mucolipin 2).
3300002C04RIK OR MCOLN2.
Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae
                                            538
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                                            PRELIMINARY;
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Nordone P., Ring B.,
Sasaki H., Sato K., S
Suzuki H., Toyo-oka K
Wynshaw-Boris A., Yos
Hayashizaki Y.;
"Functional annotatio
Nature 409:685-690(20
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Best Local Similarity
Matches 271; Conser
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                                                                                                                                                                                                                                             NCBI_TaxID=10090;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 97
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SLFIALITGAYDTIKHPGGAGAEESELQAYIAQCQDSPTSGKFRRGSGSACSLLCCCGRD
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                         298 FLEKYKQRVCGADQW---EFVNGWYVLVTISDLMTIIGSILKMEIKAKKLTNYDVCSILL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HEKFENLNIVAECLFSLVNGDDMFATFA--QIQQ-KSILVWLFSRLYLXSFISLFIXMVL
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SLFIALITDSYHTIKKYQQHGFPETDLQKFL----KESGSKDGYQKQPSALLSCLCCLRRR
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                                                                                                                                                                                   238 NSEANIEECKNMNISGSTQRSTHYLLVPDVPVIMICLASLILCTRSIVLALRIRKRFLNF
                                                                                                                                                                                                                                                     M---WRQRGRVISLWERLEFVNGWYILLVTSDVLTISGTIMKIGIEAKNLASYDVCSILL
                                                                                                                                                                                                                                                                                                                                                                                   GTSTLLVWVGVIRYLTFFHNYNILIATLRVALPSVWRFCCCVAVIYLGYCFCGWIVLGPY
                                                                                                                                                                                                                                                                                                                                                                                                                         SSYKNLTLKFHKLVNVTIHFRLKTINLQSLINNEIPDCYTFSVLITFDNKAHSGRIPISL
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Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mu
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STRAIN-C57EL/6J;
Kennedy J.C., Falardeau J.L., Acierno J.S. Jr., Slaugenhaupt Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.
EMBL, AF503575; AAM28596.1; -.
MGD, MGI:1915529; 3300002C04Rik.
InterPro; IPR002111; Cat channel TrpL.
SEQUENCE 566 AA; 65449 MW; 314CEC662B3BDC07 CRC64;
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3300002C04RIK OR MCOLN2
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RSNDHLILID 538
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Matches 271; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          156 PWTWGSGLALCQRYYHRGHVDPANDTFDIDPMVVTDCIQVDPPERPPPPPSDDLTLLESS 215
                                                                     FLEKYKQRVCGADQW---EFVNGWYVLVTISDLMTIIGSILKMBIKAKKLTNYDVCSILL 382
                                                                                                                                                                                                        SLFIALITGAYDTIKHPGGAGAEESBLQAYIAQCQDSPTSGKFRRGSGSACSLLCCCGRD 570
                                                     M----WRQRGRVISLWERLEFVNGWYILLYTSDVLTISGTIMKIGIEAKNLASYDVCSILL 390
                                                                                                                   GTSTLLVWVGVIRYLTFFHNYNILIATLRVALPSVMRFCCCVAVIYLGYCFCGWIVLGPY 450
                                                                                                                                      266 NSEANIEECKNMNISGSTQRSTHYLLVFDVFVIMICLASLILCTRSIVLALRLRKRFLNF 325
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SEDNRTGLKVCKQHYKTGAMFSSNETLNIDSDIETDCIHLDLQVLTTEP-----EDW
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                                                                                                                                                                                       HVXFRSLSMVSECLFSLINGDDMFVTFAAMQAQQGRSSLVWLFSQLYLYSFISLFIYMVL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Chordata; Craniata; Vertebrata; Buteleostomi; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        43.4%; Score 1332; DB 11; Length 538; 49.1%; Pred. No. 3.5e-110; vative 102; Mismatches 150; Indels 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Strausberg R.;
Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; BC029847; AAH29847.1; -.
MGD; MGI:1915529; 3300002C04Rik.
InterPro; IPR002111; Cat channel TrpL.
SEQUENCE 538 AA; 62296 WW; 86IC081FE96A628B CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                    OBKZT6 PRELIMINARY; PRT; 538 AA.

OBKZT6;

O1-OCT-2002 (TrEMBLrel. 22, Created)

O1-OCT-2003 (TrEMBLrel. 22, Last sequence update)

O1-MAR-2003 (TrEMBLrel. 23, Last annotation update)

RIKEN cDNA 3300002C04 gene.

3300002C04RIK.

Mus musculus (Mouse).

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Bu Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; M
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ALIGNMENTS

Human, membrane associated protein, MEMAP, diagnosis, cytostatic, antiinflammatory, anticonvulsant; immunosuppressive, antidiarrheic, antiarteriosclerotic, gene therapy, cell proliferative disorder, autoimmune disorder; inflammatory disorder, neurological disorder, gastrointestinal disorder; cancer; inflammation, atherosclerosis; epilepsy; diarrhoea. Azimzai Y; Burford N, Human membrane associated protein MEMAP-13 Lal P, Yue H, Tang YT, Bandman O, Baughn MR, Lu DAM, Patterson C; AA. AAB74707 standard; Protein; 580 99US-0149641. 99US-0164203. 14-AUG-2000; 2000WO-US22315 GENOMICS INC. (first entry) (INCY-) INCYTE WO200112662-A2 Homo sapiens 17-AUG-1999; 09-NOV-1999; 12-JUN-2001 22-FEB-2001 AAB74707; RESULT 1

sednence

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AAF81741 to AAF81777 encode the human membrane associated proteins

(MEMAP) given in AAB74695 to AAB74731. MEMAPs have cytostatic,
antiinflammatory, anticonvulsant, immunosuppressive, antidiarrheic and
antiarteriosclerotic activities, which can be used in gene therapy.

C antiarteriosclerotic activities, which can be used in gene therapy.

CC MEMAPs and agonist of MEMAPs can be used to treat a disease or condition
associated with decreased expression of functional MEMAP and antagonists

CC MEMAP are used to treat a disease or condition associated with

CC MEMAP are used to treat a disease or condition associated with

CC proliferative, autoimmune/inflammatory, neurological and gastrointestinal

CC proliferative, autoimmune/inflammatory, neurological and gastrointestinal

CC disgnosis of these disorders. Specific examples of these disorders

CC diagnosis of these disorders. Specific examples of these disorders

Include cancer, inflammation, atherosclerosis, epilepsy and diarrhoea.

CC miclude cancer, inflammation, atherosclerosis, epilepsy and small

MEMAP proteins can be used to screen for compounds which specifically

CD bind MEMAP including antibodies, oligonucleotides, proteins and small

MORIGINATE Adisorder associated to provide information concerning human

CC detection of MEMAP protein and can be used as antagonists to treat or

CC prevent a disorder associated with MEMAP. Polymucleotides encoding MEMAP

CC prevent a disorder associated with MEMAP. Polymucleotides encoding MEMAP

CC prevent a disorder associated with MEMAP. Polymucleotides encoding MEMAP

CC prevent a disorder associated with MEMAP. Polymucleotides encoding MEMAP

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CC prevent a disorder associated with respect to the expression of MEMAP to treat or prevent a disorder associated

CC prevent a disorder associated of the provide and provide associated and provide and provide associated of the expression of MEMAP to treat or prevent a disorder associated of the meman
                                                                                            Isolated polypeptide with a human membrane associated protein is useful for the diagnosis, prevention and treatment of cell proliferative, autoimmune/inflammatory, neurological and
                                                                                                                                                                                                              Claim 1; Page 125-126; 173pp; English
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The invention relates to a novel transient receptor potential (TRP)-like calcium channel, designated TLCC-2 and polynucleotides encoding the TLCC-2. TLCC-2 can be expressed by standard recombinant methodology. The TLCC-2 polypeptide, polynucleotides and modulators are useful for treating central nervous system disorders such as neurodegenerative disorders for example Alzheimer's disease, Parkinson's disease, multiple clerosis, amyotrophic lateral sclerosis, progressive supranuclear palsy, cepilepsy, Creutzfeldt-Jakob disease, AIDS-related dementia, familial infantile convulsions, paroxysmal choreoathetosis, psychiatric disorders such as depression, anxiety, schizophrenia, psychoses, mania or phobic disorders, learning or memory disorders such as amnesia, age-related memory loss, or a neurological disorder such as migraine. The molecules are also useful to treat a pain disorder. The present sequence represents
                     540
                                                                                                                                                                                                                                                                                                           Transient receptor potential like calcium channel, TRP, TLCC-2, human, neuroprotective, analgesic, nootropic, antiparkinsonian, antidepressant, cerebroprotective, anxiolytic, antimanic, anticonvulsant, gene therapy,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New nucleic acid designated TLCC-2 encodes a transient receptor potential-like calcium channel and is useful to diagnose and treat pain disorders and central nervous system neurodegenerative and neurological
QAQQGRSSLVWLFSQLYLYSFISLFIYMVLSLFIALITGAYDTIKHPGGAGAEESELQAY
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0; Mismatches
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N-PSDB; ABL40754, ABL40755.
                                                                                                                                                                                                                                             entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (CURT/) CURTIS R A J. (SILO/) SILOS-SANTIAGO I.
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Best Local Similarity 100.
Matches 580; Conservative
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The present invention relates to the protein and coding sequences of human transient receptor potential (TRP)-like calcium channel protein-2 (TLCC-2). The sequences can be used in the treatment of TLCC-2 related disorders, including central nervous system disorders such as Alzheimer's, Parkinson's and Huntington's diseases, multiple sclerosis, Gilles de la Tourette's syndrome, autonomic function disorders, learning or memory disorders, pain disorders and disorders of cellular proliferation, including cancer. The present sequence is the TLCC-2 protein.
                                                                                                                                                                                                                                           MTAPAGPRGSETERLLTPNPGYGTQAGPSPAPPTPPEEEDLRRRLKYFFMSPCDKFRAKG
                                                                                                                                                                                                                                                                                             TREQLYQAIFHAVDQYLALPDVSLGRYAYVRGGGDPWTNGSGLALCQRYYHRGHVDPAND
                                                                                                                                                                                                                                                                                                                                    TEDIDEMVVTDCIQVDEPERPEPPSDDLTLLESSSSYKNLTLKFHKLVNVTIHFRLKTI
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antiinflammatory; antiulcer;
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antiallergic; hepatotropic; antidiabetic;
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                                                     PDCYTESVLITFDNKAHSGRIPISLETQAHIQECKHPSVFQHGDNSFRLL
                                                                                                                                 SFLLCARSLLRGFLLQNEFVGFMWRQRGRVISLWERLEFVNGWYILLVT
                                                                                                                                                                                               WKIGIBAKNLASYDVCSILLGTSTLLVWVGVIRYLTFFHNYNILLATLRV
                                                                                                                                                                                                                                      CVAVIYLGYCFCGWIVLGPYHVKFRSLSMVSECLFSLINGDDMFVTFAAM
                                                                                                                                                                                                                                                                           transient receptor potential-like calcium channel treating Alzheimer's disease, depression, amnesia,
                                                                               OCIQVDPPERPPPPSDDLTLLESSSSYKNLTLKFHKLVNVTIHFRLKTI
                                                                                                                                                                      nociception, nootropic, neuroprotective, antiparkinsonian; cytostatic; hypotensive; antidepressant; analgesic; anticonvulsant; tranquiliser; Parkinson's disease; Huntington's disease; multiple sclerosis; Gilles de la Tourette's syndrome; autonomic function disorder; cancer; neuroleptic; gene therapy; Alzheimer's disease; CNS disorder.
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N-PSDB; AAI71699, AA
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protein-2 useful for
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cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder; neurological disease; infection; human; secreted protein.
vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic;
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sapiens Ното WO200190304-A2

29-NOV-2001.

18-MAY-2001; 2001WO-US16450

-205515P 19-MAY-2000; 2000US

SCI INC (HUMA-) HUMAN GENOME

Rosen CA; GB, Birse

WPI; 2002-122018/16 N-PSDB; ABL90358.

ed polypeptides, useful for diagnosis, treatment and ral, immune system, muscular, reproductive, pulmonary, cardiovascular, renal and proliferative neural 1405 isolated prevention of neur gastrointestinal, disorders Novel

Claim 11; SEQ ID NO 2325; 2081pp + Sequence Listing; English.

The invention relates to novel genes (ABL89449-ABL90853) and proteins (ABB89040-ABB90444) useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant) agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune disorders e.g. Addison's disease, allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) cardiovascular disorders such as myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f) infectious diseases such as viral, bacterial, fungal epilepsy; and (f) infectious diseases such as viral, bacterial, fungal and parasitic infections.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pot_sequences.

511 AA; Sequence

0; 0; Gaps 87.5%; Score 2685; DB 23; Length 511; 99.8%; Pred. No. 3.2e-281; ive 1; Mismatches 0; Indels 0; vative Query Match Best Local Similarity Matches 510; Conser $\stackrel{>}{\circ}$

129 249 300 120 LITEDNKAHSGRIPISLETQAHIQECKHPSVFQHGDNSFRLLFDVVVILTC 309 9 TOCIQVOPPERPPPPSDDLTLLESSSSYKNLTLKFHKLVNVTIHFRLKTINLQSLINNE LPDVSLGRYAYVRGGGDPWTNGSGLALCQRYYHRGHVDPANDTFDIDPMVV PERPPPPSDDLTLLESSSSYKNLTLKFHKLVNVTIHFRLKTINLQSLINNE QLILFGLSNQLAVTFREENTIAFRHLFLLGYSDGADDTFAAYTREQLYQAI OLILFGLSNQLAVTFREENTIAFRHLFLLGYSDGADDTFAAYTREQLYQAI :||||||| MVKILVVTV FHAVDQYLA IPDCYTFSV IPDCYTEST VVKILVVT TDCIONDE 310 т 250 181 241 121 130 61 190 70

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                                                        CCVAVIYLGYCFCGWIVLGPYHVKFRSLSMVSECLFSLINGDDMFVTFAAMQAQQGRSSL
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AAB08906 standard; Protein; 511 AA AAB08906 RESULT

AAB08906;

(first entry) 30-AUG-2000 Human secreted protein sequence encoded by gene 16 SEQ ID NO:63.

Human; secreted protein; cytostatic; anti-proliferative; vulnerary; immunosuppressive; antibacterial; diagnosis; immune system; chemotaxis; hyperproliferative disorder; infectious disease; tissue regeneration; screening; food additive; preservative; wound healing; hyper-vascular disease.

Ношо

WO200017222-A1.

0-MAR-2000

99WO-US22012 22-SEP-1999;

98US-0101546. 98US-0102895. 23-SEP-1998; 02-OCT-1998; (HUMA-) HUMAN GENOME SCI INC

. H ΞZ Young PE, Lafleur DW, D, Shi Y, Soppet DR; Duan RD, Endress GA, Rosen CA Komatsoulis G, Ruben SM,

2000-283538/24. N-PSDB; AAA39067

diagnostic and Human secreted proteins and coding sequences useful in diagenterapeutic methods for disorders such as immune system or proliferative disorders, related to the proteins

Claim 11; Page 362-363; 416pp; English

The polynucleotide sequences given in AAB18851 to AAA19088 encode the human secreted proteins given in AAB18891 to AAB18984. The human secreted proteins given in AAB18891 to AAB18984. The human secreted proteins can have activities based on the tissues and cells they are expressed in Examples of the activities are: cytostatic; anti-proliferative; immunosuppressive; antibacterial; and vulnerary. The secreted proteins and their related polynucleotide sequences are useful for diagnostic and therapeutic methods useful for diagnosing and treating disorders related to the secreted proteins. The proteins, and polynucleotide sequences may be useful for treating disorders of the immune system, hyperproliferative disorders, infectious disease, companeration of tissues, for chemotaxis and for screening molecules that bind to the proteins. The proteins or polynucleotide sequences may be used as food additives or preservatives, to increase or decrease storage capabilities, fat content, lipid, protein, carbohydrate, vitamins, minerals, co-factors or other nutritional components. Agonists or

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 proteins may be used to prevent scar tissue growth ig, and hyper-vascular diseases. AAA39043 to AAA39051 equences used in the exemplification of the present
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                                                                                                                                                                                           TDCIQVDPPERPPRESDLTLLESSSSXKNLTLKFHKLVNVTIHFRLKTINLQSLINNE
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                                                                   Score 2661; DB 21;
Pred. No. 1.3e-278;
.; Mismatches 4;
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LAVTFREENTIAFRHLFLLGYSDGADDTFAAYTREQLYQAIFHAVDQYLALPDVSLGRYA

TPPESE-----DLRRRLKYFFMSPCDKFRAKGRKFCKLMLQVVKILVVTVQLILFGLSNQ | | | | : | : | : | | : | | : | | : | | : | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | YVRGGGDPWINGSGLALCORYYHRGHVDPANDTFDIDPMVVTDCIOVDPPERPPPPSDD

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YENKG----TKQSAMAICQHFYKRGNIYPGNDTFDIDPEIETECFFVEPDE----PFHI

LTLLESSSSYKNLTLKFHKLVNVTIHFRLKTINLOSLINNEIPDCYTFSVLITFDNKAHS GTPAENK---LNLTLDFHRLLTVELQFKLKAINLQTVRHQELPDCYDFTLTITFDNKAHS GRIPISLETQAHIQECK--HPSVFQHGDNSFRLLFDVVVILTCSLSFLLCARSLLRGFLL

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ONEFVGFMWRQRGRVISLWERLEFVNGWYILLVTSDVLTISGTIMKIGIEAKNLASYDVC

SILLGTSTLLVWVGVIRYLTFFHNYNILLATLRVALPSVMRFCCCVAVIYLGYCFCGWIV SILLGTSTMLVWLGVIRYLGFFAKYNLLILTLQAALDNVIRFCCCAAMIYLGYCFCGWIV 447 LGPYHVKFRSLSMVSECLFSLINGDDMFVTFAAMQAQQGRSSLVWLFSQLYLYSFISLFI

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The present invention describes primer sets for synthesising 5602
tull-length cDNAs defined in the specification. Where a primer set
cumprises: (a) an oligo-dT primer and an oligonucleotide complementary
comprises: (a) an oligo-dT primer and an oligonucleotide comprises one of
the solidonucleotide sequences defined in the specification, where the
coligonucleotide comprising a sequence complementary to the
complementary strand of a polynucleotide which comprises a 5' end
sequence and an oligonucleotide comprising a sequence complementary to a
complementary strand of a polynucleotide which comprises a 3' end sequence.

Complementary strand of a polynucleotide which comprises a 5' end
sequence and an oligonucleotide comprising a sequence complementary to a
coligonucleotide which comprises a 3' end sequence, where the
coligonucleotide comprises a 1 least 15 nucleotides and the combination of
the 5' end sequence/3' end sequence is selected from those defined in
the specification. The primer sets can be used in antisense therapy and
in gene therapy. The primers are useful for synthesising polynucleotides,
colligonucleotide comprises of the abnormality of the proteins encoded by
colligonucleotide comprises and sequences; AAH3628 and
AAH3633 to AAH18742 represent human cDNA sequences; AAH9366 to AAH3622
ceptesent oligonucleotides, all of which are used in the exemplification
of the present invention
                                                                                                                                                                              Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs -
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                                                        LITDIYETIKQYQQDGFPETELRIFISECKDLPNSGKYRLEDDPPVSLFCC
 Mezes PD, Smithson C
J, Zerhusen BD;
KA, Malyankar UM;
P, Ju J, Peyman JA;
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Guo X, Gerlach V, Casman SJ, Boldog FL, Li L, Zerhusen BD
Tchernev VT, Gangolli EA, Vernet CAM, Spytek KA, Malyankar
Patturajan M, Miller CE, Taupier RJ, Heyes MP, Ju J, Peym
Catterton E, MacDougall JR, Edinger SR, Stone DJ, Mazur A;
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10-APR-2001; 2001US-282930P.
12-APR-2001; 2001US-283444P.
13-APR-2001; 2001US-283512P.
13-APR-2001; 2001US-283578P.
13-APR-2001; 2001US-283578P.
13-APR-2001; 2001US-283678P.
17-APR-2001; 2001US-28531P.
24-APR-2001; 2001US-285381P.
25-APR-2001; 2001US-285381P.
26-UUN-2001; 2001US-28692P.
26-UUN-2001; 2001US-386292P.
26-UUN-2001; 2001US-386292P.
26-UUN-2001; 2001US-39693P.
08-AUG-2001; 2001US-32283P.
05-OCT-2001; 2001US-322283P.
05-OCT-2001; 2001US-322283P.
05-OCT-2001; 2001US-323283P.
05-OCT-2001; 2001US-32348P.
31-DEC-2001; 2001US-345734P.
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This invention describes novel polypeptides, termed NOVX which have antidiabetic, antiarteriosclerotic, anorectic, metabolic, antimicrobial, neuroprotective, antiparkinsonian, antilipaemic, cytostatic, nootropic, cardiant and immunomodulatory activity. The polypeptide and any antibodies generated from it are useful in the manufacture of a antibodies generated from it are useful in the manufacture of a andicament for treating a syndrome associated with the NOVX polypeptide. Fragments selected from a pathology associated with the NOVX polypeptides are useful to map the location of NOVX genes on a chromosome, to identify individuals from minute biological samples, as DNA markers for restriction fragment length polymorphism (RFLP), and are useful to prepare polymerase chain reaction primers. The products of the invention prepare polymerase chain reaction primers. The products of the invention disease, and used in gene therapy and for treating cardiomyopathy, metabolic disease, anorexia, neurodegenerative disorders, Alzheimer's disease, Parkinson's disease, immune disorders, haematopoietic disorders, and various dyslipidaemias, metabolic disturbances associated with obesity, metabolic syndrome X and wasting disorders associated with chronic diseases and various cancers. ABU12041-ABU12086 represent the polypeptide fragments encoded by the NOVX polynucleotides represented in ABX56261-ABX56306.
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New isolated NOVX polypeptide useful for treating cardiomyopathy, atherosclerosis, metabolic disorders, diabetes, obesity, infectious disease, anorexia, neurodegenerative disorders, Alzheimer's disease and
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N-PSDB; ABX56274.
                                                                                                                 ABU12054 standard;
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24-APR-2001;

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24-APR-2001;

25-APR-2001;

26-AUN-2001;

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Guo X, Gerl
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This invention describes novel polypeptides, termed NOVX which have antidiabetic, antiarteriosclerotic, anorectic, metabolic, antimicrobial, neuroprotective, antiparkinsonian, antilipaemic, cytostatic, nootropic, cardiant and immunomodulatory activity. The polypeptide and any antibodies generated from it are useful in the manufacture of a medicament for treating a syndrome associated with a human disease selected from a pathology associated with the NOVX polypeptides. Fragments and portions of the polynucleotides encoding NOVX polypeptides are useful to map the location of NOVX genes on a chromosome, to identify individuals from minute biological samples, as DNA markers for restriction fragment length polymorphism (RFLP), and are useful to prepare polymerase chain reaction primers. The products of the invention disoners, atherosclerosis, obesity, infectious disease, anorexia, neurodegenerative disorders, Alzheimer's disease, parkinson's disease, immune disorders, haematopoietic disorders, and various disease, immune disorders, haematopoietic disorders, and various dyslipidaemias, metabolic disturbances associated with chronic diseases and various cancers. AbU12041-ABU12086 represent the polypeptide fragments encoded by the NOVX polynucleotides represented in ABX56261-ABX56306. 37 155 215 Sequence 97 97 $\overset{\times}{\times} \overset{\circ}{\circ} \overset{\circ}$ 셤 ò d δ ð δ NOVX; human; antidiabetic; antiarteriosclerotic; anorectic; nootropic; metabolic; antimicrobial; neuroprotective; antiparkinsonian; cardiant; antilipaemic; cytostatic; immunomodulatory; gene therapy; dyslipidaemia; cardiomyopathy; metabolic disorder; diabetes; atherosclerosis; obesity; anorexia; neurodegenerative disorder; Alzheimer's disease; cancer; Parkinson's disease; haematopoietic disorder; metabolic disturbance; metabolic syndrome X; wasting disease. SEQ Human NOV9d CG90709-04 protein Protein; 538 DDHLIPIS 531

566 AA

154 452 512 572 558 8 96 EEEDLERRLKYFFMSPCDKFRAKGRKPCKLMLQVVKILVVTVQLILFGLSNQLAVTFREE NTIAFRHLFLLGYSDGADDTF--AAYTREQLYQAIFHAVDQYLALPDVSLGRYAYVRGGG DPWINGSGLALCORYYHRGHVDPANDIFDIDPMVVTDCIOVDPPERPPPPPBDLTLLES SSSYKNLTLKFHKLVNVTIHFRLKTINLQSLINNEIPDCYTFSVLITFDNKAHSGRIPIS SNEDNRIGLKVCKQHYKKGTMFPSNETLNIDNDVELDCVQLDLQDLSKKPPD-----WKN LETQAHIQECKHPSVFQHGDNS--FRILFDVVVILTCSLSFLLCARSLLRGFLLQNEFVG FMWRQRGRVISLWERLEFVNGWYILLLVTSDVLTISGTIMKIGIEAKNLASYDVCSILLGT STLLVWVGVIRYLTFFHNYNILIATLRVALPSVMRFCCCVAVIYLGYCFCGWIVLGPYHV STLLVWVGVIRYLGYFQAXNVLILTMQASLPKVLRFCACAGMIYLGYFCGWIVLGPYHD FIALITGAYDTIKHPGGAGAEESELQAYIAQCQDSPTSGKFRRGSGSACSLLCCCGRDPS Gaps 22; Length 566; Indels Query Match
Best Local Similarity 48.7%; Pred. No. 1.6e-138;
Matches 267; Conservative 115; Mismatches 144; s:|:: DDHLIPIS EEHSLLVN 275 325 445 393 385 g $\overset{\circ}{\circ}$ g ò 임 δ 8

ABU12052 standard; Protein; 544 AA. ABU12052 ID ABU120 XX

English

Claim 1; Page 113;

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(first
    human;
  Human NOV9b
 19-FEB-2003
ABU12052;
    NOVX;
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9-02 protein SEQ ID 24 metabolic; antimics antilipaemic; cytos cardiomyopathy; met CG9070

robial; neuroprotective; antiparkinsonian; cardiant; static; immunomodulatory; gene therapy; dyslipidaemia; tabolic disorder; diabetes; atherosclerosis; obesity; enerative disorder; Alzheimer's disease; cancer; e; haematopoietic disorder; metabolic disturbance; X; wasting disease. antidiabetic, antiarteriosclerotic; anorectic; nootropic; anorexia, neurodegene Parkinson's disease; metabolic syndrome X,

sapiens Homo WO200281625-A2

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2002WO-US10366 03-APR-2002;

2001US-282930P. 2001US-28344P. 2001US-283512P. 2001US-283678P. 2001US-283678P. 2001US-283710P. 2001US-28331P. 2001US-28531P. 2001US-286068P. 2001US-286068P. 2001US-286068P. 2001US-38531P. 2001US-38531P. 2001US-38531P. 2001US-38531P. 2001US-38531P. 2001US-38531P. 2001US-38531P. 2001US-311003P. 2001US-311973P. 2001US-312901P. 2001US-32283P. 2001US-32283P. 2001US-281086P. 2001US-281906P. 2001US-282020P. 2002US-345755P. 2002US-354391P. 2002US-0114153. 03-APR-2001; 05-APR-2001; 06-APR-2001; 10-APR-2001; 12-APR-2001; 13-APR-2001; 13-APR-2001; 13-APR-2001; 13-APR-2001; 20-APR-2001; 20-APR-2001; 26-JUN-2001; 08-AUG-2001; 13-AUG-2001; 16-AUG-2001; 14-SEP-2001; 05-OCT-2001;

(CURA-) CURAGEN CORP.

fezes PD, Smithson G
Zerhusen BD;
A, Malyankar UM;
Ju J, Peyman JA; Padigaru M, Shenoy SG, Kekuda R, Rastelli L, Mezes PD, Smi Guo X, Gerlach V, Casman SJ, Boldog FL, Li L, Zerhusen BD, Tchernev VT, Gangolli EA, Vernet CAM, Spytek KA, Malyankar Patturajan M, Miller CE, Taupier RJ, Heyes MP, Ju J, Peyma Catterton E, MacDougall JR, Edinger SR, Stone DJ, Mazur A;

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WPI; 2003-046862/04. N-PSDB; ABX56272.

f polypeptide useful for treating cardiomyopathy, metabolic disorders, diabetes, obesity, infectious a, neurodegenerative disorders, Alzheimer's disease and atherosclerosis, m disease, anorexia, cancer New isolated NOVX

425pp; English. Claim 1; Page 111;

antidiabetic, antiarteriosclerofic, anorectic, metabolic, antimicrobial, neuroprotective, antiparkinsonian, antilipaemic, cytostatic, nootropic, cardiant and immunomodulatory activity. The polypeptide and any antibodies generated from it are useful in the manufacture of a medicament for treating a syndrome associated with a human disease selected from a pathology associated with the NOVX polypeptide. Fragments This invention describes novel polypeptides, termed NOVX which have

NOVX; human; antidiabetic; antiarteriosclerotic; anorectic; nootropic; metabolic; antimicrobial; neuroprotective; antiparkinsonian; cardiant;

Human NOV9a CG90709-01 protein SEQ ID 22

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and portions of the polynucleotides encoding NOVX polypeptides are useful to map the location of NOVX genes on a chromosome, to identify individuals from minute biological samples, as DNA markers for restriction fragment length polymorphism (RFLP), and are useful to prepare polymerase chain reaction primers. The products of the invention can be used in gene therapy and for treating cardiomyopathy, metabolic disorders, diabetes, atherosclerosis, obesity, infectious disease, anorexia, neurodegenerative disorders, Alzheimer's disease, Parkinson's disease, immune disorders, haematopoietic disorders, and various disease, syndrome X and wasting disorders associated with chronic diseases and various cancers. ABUI2041-ABUI2086 represent the polypeptide fragments encoded by the NOVX polynucleotides represented in ABX56261-ABX56306.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FIALITDSYDTIKKFQQNGFPETDLQEFLKECS---SKEFYQKESSAFLSCICCRRRSVS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FFLEXYKRPVCDTDQWEFINGWYVLVIISDLMTIIGSILKMEIKAKNLTNYDLCSIFLGT
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cardiomyopathy; metabolic disorder; diabetes; atheroscierosis; obesity; anorexia; neurodegenerative disorder; Alzheimer's disease; cancer; Parkinson's disease; haematopoietic disorder; metabolic disturbance; metabolic syndrome X; wasting disease. cytostatic; antilipaemic;

Homo sapiens

WO200281625-A2

17-OCT-2002

2002WO-US10366 03-APR-2002;

-APR-2001

2001US-281086P. 2001US-281906P. 2001US-282020P. 2001US-283444P. 2001US-283444P. 2001US-28367P. 2001US-28367P. 2001US-283657P. 2001US-283657P. 2001US-283658P. 2001US-28668P. 2001US-28668P. 2001US-28668P. 2001US-28668P. 2001US-38538P. 2001US-311973P. 2001US-311973P. 2001US-311973P. 2001US-311973P. 2001US-311973P. 2001US-312283P. 2001US-32283P. 2001US-31293P. 2001US-31293P. 2001US-32283P. 2001US-32283P. 2001US-345734P. 2002US-345735P.

(CURA-) CURAGEN COR

ö Zerhusen BD; 1, Malyankar UM; Ju J, Peyman JA; Smithson SG, Kekuda R, Rastelli L, Mezes PD, Sm Casman SJ, Boldog FL, Li L, Zerhusen BD lli EA, Vernet CAM, Spytek KA, Malyankar er CE, Taupier RJ, Heyes MP, Ju J, Peym ugall JR, Edinger SR, Stone DJ, Mazur A; Gangol Mille u M, Shenoy Gerlach V, MacDo Guo X, Tchernev VT, G Patturajan I Catterton E Padigaru M Guo X, G

WPI; 2003-046862/04 N-PSDB; ABX56271.

olypeptide useful for treating cardiomyopathy, tabolic disorders, diabetes, obesity, infectious neurodegenerative disorders, Alzheimer's disease and me atherosclerosis, m disease, anorexia, isolated NOVX cancer

425pp; English Claim 1; Page 110;

antidiambetic, antiarteriosclerotic, anorectic, metabolic, antimicrobial, neuroprotective, antiarteriosclerotic, anorectic, metabolic, antimicrobial, neuroprotective, antiparkinsonian, antilipaemic, cytostatic, nootropic, cardiant and immunomodulatory artilipaemic, cytostatic, nootropic, antibodies generated from it are useful in the manufacture of a medicament for treating a syndrome associated with a human disease selected from a pathology associated with the NOVX polypeptide. Fragments of the polynucleotides encoding NOVX polypeptides are useful to individuals from minute biological samples, as DNA markers for restriction fragment length polymorphism (RFLP), and are useful to prepare polymerase chain reaction primers. The products of the invention can be used in gene therapy and for treating cardiomyopathy, metabolic disorders, diabetes, atherosclerosis, obesity, infectious disease, parkinson's ribes novel polypeptides, termed NOVX which have This invention descri antidiabetic, antiart neuroprotective, anti cardiant and immunomo

dyslipidaemias, metabolic disturbances associated with obesity, metabolic syndrome X and wasting disorders associated with chronic diseases and various cancers. ABU12041-ABU12086 represent the polypeptide fragments encoded by the NOVX polynucleotides represented in ABX56261-ABX56306. 9 232 154 214 509 569 96 68 EDLRRRLKYFFMSPCDKFRAKGRKPCKLMLQVVKILVVTVQLILFGLSNQLAVTFREE DPWINGSGLALCORYYHRGHVDPANDTFDIDPMVVTDCIOVDPPERPPPPPSDDLTLLES FVGFWWRQRGRVISLWERLEFVNGWYILLVTSDVLTISGTIMKIGIEAKNLASYDVCSIL NTIAFRHIFLIGYSDGADDTF--AAYTREQLYQAIFHAVDQYLALPDVSLGRYAYVRGGG SSSYKNLTLK-----FHKLVNVTIHFRLKTINLOSLINNEIPDCYTFSVLITFDNKAHSG RIPISLETOAHIQECKHPSVFQHGDNSFRLLFDVVVILTCSLSFLLCARSLLRGFLLQNE LGTSTLLVWVGVIRYLTFFHNYNILIATLRVALPSVMRFCCCVAVIYLGYCFCGWIVLGP YHVKFRSLSMVSECLFSLINGDDMFVTFAAMQAQQGRSSLVWLFSQLYLYSFISLFIYMV LSLFIALITGAYDTIKHPGGAGAEESELQAYIAQCQDSPTSGKFRRGSGSACSLLCCCGR Gaps 32; 540; Length Indels Query Match
Best Local Similarity 48.0%; Pred. No. 2.2e-132;
Matches 264; Conservative 110; Mismatches 144; 579 DPSEEHSLLV SVSCLFSMLL 540 AA; 田田田 467 410 37 69 155 125 215 270 233 330 290 390 350 450 510 Sequence 97 570 SSSSSX8 d dG δ ద ò δ $\dot{\delta}$ g δ 임 à g ò du ò g 8

standard; Protein; 255 533 ABB72389 ABB72389 RESULT 11 ABB72389

skin cells SEQ ID NO: Murine protein isolated from entry) 04-APR-2002

Human; rat; mouse; skin cell; skin wound; cancer; growth defect;
developmental defect; inflammatory disease; dermatological; vulnerary;
immunomodulator; anti-inflammatory; cytostatic; neuroprotective.

sb

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29-NOV-2001

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LGYSDGADDTFAAYTREQLYQALFHAVDQYLALPDVSLGRYAYVRGGGDP 156
                                                                                                                                                                                                                                                      tion provides the protein and coding sequences of cDNAs an, murine and rat skin cell libraries. The sequences a development of therapeutic agents useful in the diseases, including skin wounds, cancer, growth ental defects and inflammatory diseases. The proteins les in the induction of hair growth, cell proliferation exaction, in maintaining tissue integrity, in wound dulating immune responses. The present sequence is a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                             Kumble KD;
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                                                                                                                                                New polynucleotides and polypeptides encoded by the polynucleotides isolated from skin cells, useful for treating skin wounds, cancers, growth and developmental defects, inflammatory diseases, or for modulating immune responses
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89.7%; Pred. No. 1.1e-123;
vative 13; Mismatches 13;
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                                                                 & DEV CORP LTD
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                                                                                                                                                                                                                                                                                                                                                                 invention
                         24-MAY-2000; 2000US-206650P.
25-JUL-2000; 2000US-221232P.
 2001WO-NZ00099
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                                                                                             Strachan
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                                                                                                                     WPI; 2002-122020/16
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Best Local Similarity
Matches 227; Conser
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                                                                                                                                  N-PSDB; ABL35079.
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 24-MAY-2001;
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                                                                                             Watson JD,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               213 PNNTMPPLKLCLQNYREGTIFGFNESYIFDPHIDEVC-----ERLPP----NVTTIGVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SSSSYKNLTLKFHKLVNVTIHFRLKTINLQSLINN----EIPDCYTFSVLITFDNKAHSGR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 441 CSLFLGIGNLLVWFGVLRYLGFFKTYNVVILTLKKAAPKILRFLIAALLIYAGFVFCGWL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STPVAP-------VVPMP---ISAGSGTAPPSVDGREEQPEFPGSSAASYQEERMRRKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  328 NEFVGFMWRQRGRVISLWERLEFVNGWYILLVTSDVLTISGTIMKIGIEAKNLA--SYDV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  381 CTTVNFFRSQFGKELSFDGRLEFVNFWYIMIIFNDVLLIIGSALKEQIEGRYLVVDQWDT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VLGPYHVKFRSLSMVSECLFSLINGDDMFVTFAAMQAQQGRSSLVWLFSQLYLYSFISLF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                       The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The inventiuseful in developmental biology and in elucidating cell signalling cell-cell interactions in higher eukaryotes for the development of insecticides, therapeutics and pharmaceutical drugs. The invention discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA sequences (ABL01840-ABL16175) and the encoded proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                     The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       83;
                                                                                                                                                                                                                                                                                            ID NO 41817; 21pp + Sequence Listing; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     33.4%; Score 1025.5; DB 22; Lengt ilarity 37.3%; Pred. No. 2.4e-101; Conservative 119; Mismatches 190; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2 TAPAGPRGSETERLLTPNPGYGTQAGPSPAPPT-----PPE---
                                                                                                                                                                                                                              detection reagent for for elucidating cell
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                                                                                                                                               Myers
                                                                                                                                               Li PWD,
                                                             23-MAR-2000; 2000US-191637P
11-JUL-2000; 2000US-0614150
                                23-MAR-2001; 2001WO-US09231
                                                                                                                                                                                                                            New isolated nucleic acid
genes from Drosophila and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 233; Conserval
                                                                                                                                               Adams M,
                                                                                                                                                                                                                                                                                                                                                                                                                                        (ABB57737-ABB72072).
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N-PSDB; ABL15778.
                                                                                                               CORP NY
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27-SEP-2001
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The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. ABG00010-ABG30377 represent novel human acid sequences of the invention.
                   ---RRG 556
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         data for this patent did not appear in the printed was obtained in electronic format directly from WIPO //published_pct_sequences.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutation responsible for genetic disorders or other traits and to assess biodiversity -
506 IYMVLSLFIALITGAYDTIKHPGGAGAEESELQAYI-AQCQDSPTSGKF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   32103; 103pp; English
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                                                                                                                                                                                                                                                                                    Novel human diagnostic protein #1735.
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                                                                     CGR-----DPSEEHS
                                                                                                                                                                                      Protein; 191
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23-AUG-2000; 2000US
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N-PSDB; AAS65931.
                                                                    SGSACSITCC
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specification, but
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                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
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                                                                                                                                   TREQLYQAIFHAVDQYLALPDVSLGRYAYVRGGDPWTNGSGLALCQRDYHRGHVDPGND
                                                           1 MTAPAGPRGSETERFLTPNPGYGTQAGPSPAPPTPPEEEDLRRRLKYPFMSPCDKFRAKG
                                                                                RKPCKIMLOVVKILVVTVQLILFGLSNQLAVTFREENTIAFRHLFLLGYSDGADDTFAAY
                                                                                           RKPCKLMLQVVKILVVTVQLILFGLSNQLAVTFREENTIAFRHLFLLGYSDGADDTFAAY
                                        1 MTAPAGPRGSETERLLTPNPGYGTQAGPSPAPPTPPEEEDLRRRLKYFFMSPCDKFRAKG
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/note= "Alternatively this residue is
species variation"
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Pred. No. 3.9e-97;
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/label= Mature_TANGO_480_protein
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/label= Extracellular_domain
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151..193
/label= Cytoplasmic_domain
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/label= Transmembrane_domain
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/label= Extracellular_domain
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/label= Transmembrane_domain
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/note= "Alternatively this
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/label= Cytoplasmic_domain
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         98.4%;
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                     183; Conservative
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WO200123523-A2

Length 191;

DB 22;

Score 979;

31.9%;

Query Match

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The present sequence representing human TANGO 480 is isolated from cDNA clone jthka173a09 from a human keratinocyte cDNA library.

TANGO 480 is 1 of 4 novel human transmembrane proteins which also includes TANGO 315 (AAU006502-AAU006499), TANGO 330 (AAU00500-AAU00501),

and TANGO 437 (AAU00502). The nucleic acids encoding these proteins or useful as modulating agents in regulating a variety of cellular processes and can be used to express the proteins in a host cell in gene therapy applications. Antisense nucleic acid molecules and expression vectors containing the TANGO nucleic acids are also described. Diagnostic assays can be used to detect genetic alterations in the TANGO nucleic acids and to identify compounds that bind to or modulate activity containing the TANGO antibodies are used diagnostically to monitor protein levels in tissue as a clinical testing procedure.

TANGO 480 nucleic acids and proteins may be used to diagnose, treat and monitor keratinocyte disorders e.g. squamous cell carcinoma, keratitis.
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                                                    02-OCT-2000; 2000WO-US27202.
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182 KMQQKK 187
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The invention relates to novel genes (ABL89449-ABL90853) and proteins (ABB89040-ABB90444) useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant)agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune disorders e.g. Addison's disease, allergies, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) cardiovascular disorders such as myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f) infectious diseases such as viral, bacterial, fungal
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Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                             Novel 1405 isolated polypeptides, useful for diagnosis, treatment and prevention of neural, immune system, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, renal and proliferative
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neurological disease; infection; human; secreted protein
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27, 2003, 12:19:17; Search time 348.801 Seconds (without alignments) 8465.189 Million cell updates/sec
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GenCore version
Copyright (c) 1993 - 2003
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	Description	Sequence 3, Appli	Sequence 3, Appli	Sequence 1, Appli	Sequence 1, Appli	Sequence 26, Appl	0	Sequence 50, Appl	Sequence 608, App	Sequence 608, App	Sequence 161, App	23	Sequence 27, Appl	Sequence 25, Appl	Sequence 4, Appli	21	74
SUMMARIES	QI	US-09-828-466-3	US-10-103-458-3	US-09-828-466-1	US-10-103-458-1	US-09-820-893-26	US-09-965-529-50	US-09-969-680A-50	US-09-866-050A-608	US-10-152-661-608	US-09-796-753-161	US-10-114-153-23	US-10-114-153-27	US-10-114-153-25	US-10-305-810-4	US-10-114-153-21	US-10-101-487-74
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	% Query Match Length	1740	1740	2095	2095	2094	2052	2052	1827	1827	1912	1671	2067	2130	1677	1677	720
	% Query Match	100.0	100.0	100.0	100.0	99.9	6.66	99.9	77.3	77.3	18.5	18.1	18.1	18.1	16.7	16.7	5.1
	Score	1101	1101	1101	1101	1100.2	1099.4	1099.4	851.4	851.4	203.8	199.8	199.8	199.8	183.8	183.8	56
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ALIGNMENTS

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395 CIGIGGACCAGTACCTGGCGTTGCCTGACGTGTCACTGGGCCGGTATGCGTATGTCCGTG 454
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Sequence 3, Application US/09828466

Sequence 3, Application US/09828466

Batent No. US20020035056A1

GENERAL INFORMATION:

APPLICANT: Curtis, Rory A.J.

APPLICANT: Silos-Santiago, Immaculada

TITLE OF INVENTION: 54420, A NOVEL HUMAN CALCIUM CHANNEL

FILE REFERENCE: MNI-125CP

CURRENT APPLICATION NUMBER: US/09/828,466

CURRENT FILING DATE: 2001-04-06

PRIOR FILING DATE: 2000-04-07

NUMBER OF SEQ ID NOS: 7

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 3

LENGTH: 1740

TYPE: DNA

ORGANISM: Homo sapiens

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; NAME/KEY: CDS
; LOCATION: (1)..(1740)
US-09-828-466-3
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CATTCCGGGAAGAGAACACCATCGCCTTCCGACACCTCTTCCTGCTGGGCTACTCGGACG
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FILE REFERENCE: MNI-125

CURRENT APPLICATION NUMBER: US/10/103,458

CURRENT FILING DATE: 2002-03-22

PRIOR APPLICATION NUMBER: US/09/544,797

PRIOR FILING DATE: PEIOE FILING DATE: 2000-
NUMBER OF SEQ ID NOS: 3

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 3

LENGTH: 1740
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                                                                                       ORGANISM: Homo sapiens FEATURE:
                                                                                                        ) NAME/KEY: CDS
; LOCATION: (1)..(1740)
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US-10-103-458-3
; Sequence 3, Application US/10103458
; Publication No. US20020197680A1
; GENERAL INFORMATION:
; APPLICANT: Curtis, Rory A.J.
; TITLE OF INVENTION: 54420, A NOVEL HUMAN CALCIUM CHANNEL
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US-10-103-458-1
; Sequence 1, Application US/10103458
; Publication No. US20020197680A1
; GENERAL INFORMATION:
; APPLICANT: Curtis, Rory A.J.
; TITLE OF INVENTION: 54420, A NOVEL HUMAN CALCIUM CHANNEL
; FILE REFERENCE: MNI-125
; CURRENT APPLICATION NUMBER: US/10/103,458
; CURRENT FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: US/09/544,797
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2095
; TYPE: DNA
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Best Local Similarity 100.0%; Pred. No. 1.2e-298;
Matches 1101; Conservative 0; Mismatches 0;
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US-09-828-466-1
Sequence 1, Application US/09828466
Patent No. US20020035056A1
GENERAL INFORMATION:
APPLICANT: Curtis, Rory A.J.
APPLICANT: Silos-Santiago, Immaculada
TITLE OF INVENTION: 54420, A NOVEL HUMAN CAL
FILE REFERENCE: MNI-125CP
CURRENT APPLICATION NUMBER: US/09/828,466
CURRENT FILING DATE: 2001-04-06
PRIOR APPLICATION NUMBER: US 09/544,797
PRIOR FILING DATE: 2000-04-07
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIN Ver. 2.0
SALIMATION NO 1
SEQ ID NO 1
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; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (141)..(1880)
US-09-828-466-1
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Best Local Similarity 99.8%; Pred. No. 2e-298;
Matches 1099; Conservative 2; Mismatches 0;
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US-09-820-893-26
Sequence 26, Application US/09820893
Patent No. US20020076705A1
GENERAL INFORMATION:
TITLE OF INVENTION: 31 Human Secreted Protein
FILE REFERENCE: PZ033P1
CURRENT APPLICATION NUMBER: US/09/820,893
CURRENT FILING DATE: 2001-03-30
PRIOR FILING DATE: 2000-03-20
PRIOR FILING DATE: 2000-03-20
PRIOR FILING DATE: 1998-10-02
NUMBER OF SEQ ID NOS: 140
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 26
LENGTH: 2094
TYPE: DNA
CREATURE: COND SADIENS
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; LOCATION: (2078)
; OTHER INFORMATION:
US-09-820-893-26
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                                                                        Query Match
Best Local Similarity 100.0%; Pred. No. 1.2e-298;
Matches 1101; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                   GGACCCGGCCAACGACATTTGACATTGA

// ORGANISM: Homo sapiens
// FEATURE:
// NAME/KEY: CDS
// LOCATION: (141)..(1880)
US-10-103-458-1

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                                                                Score 1099.4; DB 10;
Pred. No. 3.4e-298;
0; Mismatches 1; I
                                     US20020182671A1
                                    No.
                                                                Query Match
Best Local Similarity 99.9%;
Matches 1100; Conservative
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    // ORGANISM: Homo sapiens
// FEATURE:
// NAME/KEY: misc feature
// OTHER INFORMATION: Incyte
US-09-965-529-50
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US-09-965-529-50
i Sequence 50, Application US/09965529
j Publication No. US20020182671A1
gGENERAL INPORMATION:
APPLICANT: LAL, Preeti
APPLICANT: TANG, Y. Tom
APPLICANT: BAUGHN, Neil
APPLICANT: BAUGHN, Meil
APPLICANT: BAUGHN, Meil
APPLICANT: BAUGHN, Meil
APPLICANT: BAUGHN, Meil
APPLICANT: BYUNGAN, Olga
APPLICANT: BYUNGAN, Chandra
TITLE OF INVENTION: WEMBER: US/09/965,529
CURRENT FILING DATE: 2001-09-26
PRIOR FILING DATE: 1999-08-17; 1999-11-09; 2000-08-14
NUMBER OF SEQ ID NOS: 74
SOFTWARE: PERL PROGRAM
SEQ ID NO SO
LENGTH: 2052
TYPE: DNA
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US-09-866-050A-608

i Sequence 608, Application US/09866050A

j Publication No. US20030040471A1

i GENERAL INFORMATION:

j APPLICANT: Watson, James D.

APPLICANT: Sleeman, Matthew

j APPLICANT: Sleeman, Matthew

j APPLICANT: Murison, James G.

j APPLICANT: Kumble, Krishanand D.

TITLE OF INVENTION: Compositions Isolated From Skin Cells

TITLE OF INVENTION: and Methods for Their Use

TITLE OF INVENTION: and Methods for Their Use

CURRENT APPLICATION NUMBER: US/09/866,050A

CURRENT: FILING DATE: 2001-05-24

NUMBER OF SEQ ID NOS: 725

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 608

LENGTH: 1827
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; OTHER INFORMATION: Incyte ID No. US20030124649A1 977658CB1
US-09-969-680A-50
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99.9%; Score 1099.4; DB 11;
ilarity 99.9%; Pred. No. 3.4e-298;
Conservative 0; Mismatches 1; II
                                                                                                                                                                           RESULT 7
US-09-969-680A-50

Sequence 50, Application US/09969680A

Publication No. US20030124649A1

GENERAL INFORMATION:

APPLICANT: TANG, Y. Tom; BANDWAN, Olga

APPLICANT: BAUGHN, Mariah R.; LU, Dyung Aina M.

APPLICANT: BAUGHN, Mariah R.; LU, Dyung Aina M.

APPLICANT: BAUGHN, Mariah R.; LU, Dyung Aina M.

TITLE OF INVENTION: MEMBERNE ASSOCIATED PROTEINS

TITLE OF INVENTION: MEMBERNE ASSOCIATED PROTEINS

TITLE OF INVENTION NUMBER: US/09/969,680A

CURRENT FILING DATE: 2001-10-02

PRIOR APPLICATION NUMBER: 60/149,641

PRIOR FILING DATE: 1999-11-09

NUMBER OF SEQ ID NOS: 74

SOFTWARE: PERL PROGRAM

SEQ ID NOS: 74

SEQ ID NO SO

LENGTH: 2052

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/REY: misc feature
                                                                                                            TGAAGTTCCGCTCACTCTCCA 1101
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                                                                         TGGCTGTCA
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Best Local Similarity
Matches 1100; Conser
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                                                                                                                                                                                                                                                                   GENERAL INFORMATION:

APPLICANT: Watson, James D.
APPLICANT: Sleaman, Lorna
APPLICANT: Sleaman, Lorna
APPLICANT: Sleaman, Matthew
APPLICANT: Onrust, Rene
APPLICANT: Rumble, Krishanand D.
TITLE OF INVENTION: Compositions Isolated From
TITLE OF INVENTION: and Methods for Their Use
FILE REFERENCE: 11000.1011c5
CURRENT APPLICATION NUMBER: US/10/152,661
CURRENT APPLICATION NUMBER: 09/866,050
PRIOR APPLICATION NUMBER: 60/221,232
PRIOR APPLICATION NUMBER: 60/221,232
PRIOR FILING DATE: 2000-05-24
PRIOR APPLICATION NUMBER: 09/312,283
PRIOR FILING DATE: 1999-05-14
PRIOR FILING DATE: 1999-04-29
PRIOR FILING DATE: 1999-04-29
PRIOR FILING DATE: 1998-04-29
NUMBER: OF SEQ ID NOS: 725
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 608
LENGTH: 1827
TYPE: DNA
TYPE: DNA
TYPE: DNA
CRANISM: Mouse
                                                                                                                                        ; Sequence 608, Application US/10152661
; Publication No. US20030022835A1
; GENERAL INFORMATION:
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Pred. No. 1.2e-228;
); Mismatches 156; Indels 0;
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Best Local Similarity 85.8%;
Matches 945; Conservative
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j TYPE; DNAj ORGANISM: MouseUS-09-866-050A-608
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PRIOR FILING DATE: 1998-12-30
PRIOR APPLICATION NUMBER: 09/224,246
PRIOR PILING DATE: 1998-12-30
PRIOR PILING DATE: 1999-02-05
PRIOR FILING DATE: 1999-03-01
PRIOR FILING DATE: 1999-03-01
PRIOR PILING DATE: 1999-03-01
PRIOR PILING DATE: 1999-03-01
PRIOR PILING DATE: 1999-06-19
PRIOR PILING DATE: 1999-06-19
PRIOR FILING DATE: 1999-06-19
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PRIOR PILING DATE: 1999-06-19
PRIOR PILING DATE: 1999-06-20
PRIOR PILING DATE: 1999-06-30
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PRIOR PILING DATE: 2000-02-15
PRIOR PILING DATE: 2000-05-14
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Best Local Similarity 63.7%; Pr.
Matches 310; Conservative 0;
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US-09-796-753-161
i Sequence 161, Application US/09796753
j Publication No. US20030027998A1
j GENERAL INFORMATION:
i APPLICANT: McCarthy, Sean A.
i TITLE OF INVENTION: SECRETED PROTEINS AND USE
i FILE REFERENCE: 7853-227-999
i CURRENT APPLICATION NUMBER: US/09/796,753
i CURRENT FILING DATE: 2001-03-01
i PRIOR APPLICATION NUMBER: 09/183,175
i PRIOR FILING DATE: 1998-10-30
i PRIOR FILING DATE: 1998-12-30
i PRIOR FILING DATE: 1998-12-30
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Pred. No. 6.5e-46;
); Mismatches 304; Indels 6;
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PRIOR FILING DATE: 2001-04-13
PRIOR APPLICATION NUMBER: 60/283710
PRIOR FILING DATE: 2001-04-13
PRIOR APPLICATION NUMBER: 60/283678
PRIOR FILING DATE: 2001-04-13
PRIOR FILING DATE: 2001-04-13
PRIOR FILING DATE: 2001-04-17
PRIOR FILING DATE: 201-04-17
PRIOR APPLICATION AGAINS - SEQ ID NOS: 251
TYPE: DNA
CRGANISM: Homo sapiens
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Best Local Similarity 56.2%;
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US-10-114-153-23
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US-10-114-153-27
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16 Sequence 23. Application Us/10114153
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18 Septiment No. US2000015615A1
18 Septiment No. US200001661A1
18 SEPTIMENT NO. US2000001661A1
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                        CTTCAGACTGGAATTTTATCGGCTCTTACAGGTTGAAATCTCCTTTCATCTTAAAGGCAT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LICANT: Padigaru, Muralidhara
LICANT: Shenoy, Suresh
LICANT: Kekuda, Ramesh
LICANT: Rastelli, Luca
LICANT: Mezes, Peter
LICANT: Smithson, Glennda
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Tchernev, Velizar
Gangolli, Esha
Vernet, Corine
Spytek, Kimberly
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Gerlach, Valerie
Casman, Stacie
Boldog, Ferenc
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Miller, Charles
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Sequence 27, Application US/10114153
Publication No. US2000185815A1
GENERAL HIPORALION
PUBLICATION OF US200185815A1
GENERAL HIPORALION
PERLICANT: Shenoy, Suresh
APPLICANT: Sh
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Best Local Similarity 56.2
Matches 398; Conservative
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; ORGANISM: Homo s:
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (93)...
US-10-114-153-27
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laupier, Raymond J.

386 CCTCACGCTC

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936 CAAGCGGCCTGTGTGACACCGACCAGTGGGAGTTCATCAACGGCTGGTATGTCCTGGT
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                                                                                 996 GATTATCAGCGACCTAATGACAATCATTGGCTCCATATTAAAAATGGAAATCAAGCAAA
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; ORGANISM: Ion Transport Channel (Ag 1987)
US-10-305-810-4
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Publication No. US20030176385A1
GENERAL INFORMATION:
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Pred. No. 7e-46;
0; Mismatches 304; Indels
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   APPLICANT: Peyman, John
APPLICANT: Catterton, Blina
APPLICANT: Bainger, Shlomit
APPLICANT: Bainger, Shlomit
APPLICANT: Bainger, Shlomit
APPLICANT: Macure, Ann
TITLE OF INVENTION: NOVEL ANTIBODIES THAT BING
TITLE OF INVENTION: NOVEL ANTIBODIES THAT BING
TITLE OF INVENTION: ENCODING THE ANTIGENS, AN
FILE REFERENCE: 21402-32A
CURRENT APPLICATION NUMBER: 60/281086
PRIOR FILING DATE: 2001-04-03
PRIOR APPLICATION NUMBER: 60/282020
PRIOR FILING DATE: 2001-04-05
PRIOR FILING DATE: 2001-04-12
PRIOR FILING DATE: 2001-04-12
PRIOR FILING DATE: 2001-04-12
PRIOR FILING DATE: 2001-04-12
PRIOR FILING DATE: 2001-04-13
PRIOR APPLICATION NUMBER: 60/283578
PRIOR FILING DATE: 2001-04-13
PRIOR APPLICATION NUMBER: 60/283578
PRIOR FILING DATE: 2001-04-13
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PRIOR APPLICATION NUMBER: 60/283578
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; NAME/KEY: CDS
; LOCATION: (31)..(1649
US-10-114-153-25
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                                                                  APPLICANT: OUL OUNGTAIN
APPLICANT: Catterton, Elina
APPLICANT: Catterton, Elina
APPLICANT: Catterton, Elina
APPLICANT: MacDougall, John
APPLICANT: Stone, David
APPLICANT: Stone, David
APPLICANT: Stone, David
APPLICANT: MacDougle, Annual
TITLE ON INVENTION: NOVEL ANTIBODIES THAT BIND TO ANTIGENIC POLYPEI
TITLE OF INVENTION: NOVEL ANTIBODIES THAT BIND TO ANTIGENIC POLYPEI
FILE REFERENCE: 21402-3224
CURRENT FILING DATE: 2002-08-06
PRIOR FILING DATE: 2001-04-03
PRIOR FILING DATE: 2001-04-06
PRIOR FILING DATE: 2001-04-06
PRIOR FILING DATE: 2001-04-10
PRIOR APPLICATION NUMBER: 60/282020
PRIOR FILING DATE: 2001-04-10
PRIOR FILING DATE: 2001-04-10
PRIOR FILING DATE: 2001-04-12
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PRIOR PRILING DATE: 2001-04-13
PRIOR APPLICATION NUMBER: 60/28357
PRIOR PLING DATE: 2001-04-13
PRIOR FILING DATE: 2001-04-17
PRIOR APPLICATION NUMBER: 60/283578
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Heyes, Melvyn
Ju, Jingfang
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; LOCATION: (25)..(1645)
US-10-114-153-21
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Matches 388; Conserv
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US-10-114-153-21
'Sequence 21, Application US/10114153
'Publication No. US20030185815A1
'GENERAL INFORMATION:
'APPLICANT: Padigaru, Muralidhara
'APPLICANT: Shenoy, Suresh
'APPLICANT: Rastelli, Luca
'APPLICANT: Rastelli, Luca
'APPLICANT: Rastelli, Luca
'APPLICANT: Smithson, Glennda
'APPLICANT: Gerlach, Valerie
'APPLICANT: Gerlach, Valerie
'APPLICANT: Gerlach, Valerie
'APPLICANT: Gerlach, Valerie
'APPLICANT: Gerlach, Velizar
'APPLICANT: Zerhusen, Bryan
'APPLICANT: Gangolli, Esha
'APPLICANT: Tchernev, Velizar
'APPLICANT: Perhusen, Wrimberly
'APPLICANT: Patturajan, Meera
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Human, TLCC-2; TRP-like calcium channel; membrane excitability; nociception; notropic; neuroprotective; antiparkinsonian; cytostatic; hypotensive; antidepressant; analgesic; anticonvulsant; tranquiliser; Parkinson's disease; Huntington's disease; multiple sclerosis; Gilles de la Tourette's syndrome; autonomic function disorder; cancer; neuroleptic; gene therapy; Alzheimer's disease; CNS disorder; ss.
                                                                                      ACGGAGACAACAGCTTCCGGCTCCTGTTTGACGTGGTGGTCATCCTCACCTGCTCCTCGT
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                                                                                                                                                                           The invention relates to a novel transient receptor potential (TRP)-like calcium channel, designated TLCC-2 and polynucleotides encoding the TLCC-2. TLCC-2 can be expressed by standard recombinant methodology. The TLCC-2 polypeptide, polynucleotides and modulators are useful for treating central nervous system disorders such as neurodegenerative disorders for example Alzheimer's disease, Parkinson's disease, multiple sclerosis, amyotrophic lateral sclerosis, progressive supranuclear palsy, epilepsy, Creutzfeldt-Jakob disease, AIDS-related dementia, familial infantile convulsions, paroxysmal choreoathetosis, psychiatric disorders such as depression, anxiety, schizophrenia, psychoses, mania or phobic disorders, learning or memory disorders such as amnesia, age-related memory loss, or a neurological disorder such as migraine. The molecules are also useful to treat a pain disorder. The present sequence represents a cDNA encoding the human TLCC-2 polypeptide.
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                     New nucleic acid designated TLCC-2 encodes a transient receptor potential-like calcium channel and is useful to diagnose and treat pain disorders and central nervous system neurodegenerative and neurological
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Human, TLCC-2, TRP-like calcium channel, membrane excitability, nociception, nootropic, neuroprotective, antiparkinsonian, cytostatic, hypotensive, antidepressant, analgesic, anticonvulsant, tranquiliser, Parkinson's disease, Huntington's disease, multiple sclerosis, Gilles de la Tourette's syndrome; autonomic function disorder, cancer, neuroleptic, gene therapy, Alzheimer's disease, CNS disorder; ss.
CTCGACGCTGCTGGTGTGGGTGGGCGTGATCCGCTACCTGACCTTCTTCCACAACTACA
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                                                                   The present invention relates to the protein and coding sequences of human transient receptor potential (TRP)-like calcium channel protein-2 (TLCC-2). The sequences can be used in the treatment of TLCC-2 related disorders, including central nervous system disorders such as Alzheimer's, Parkinson's and Huntington's diseases, multiple sclerosis, Gilles de la Tourette's syndrome, autonomic function disorders, learning or memory disorders, pain disorders and disorders of cellular proliferation, including cancer. The present sequence is the TLCC-2 coding sequence including the 3' UTR.
   treating Alzheimer's disease, depression, amnesia
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Best Local Similarity 100.0%; Pred. No. 1.9e-239;
Matches 1101; Conservative 0; Mismatches 0; Indels
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Cytostatic, immunosuppressive, nootropic, neuroprotective, antiviral; antiallergic; hepatotropic, antidiabetic; antiinflammatory, antiulcer, vulnerary, anticonvulsant, antibacterial; antifungal; antiparasitic; cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder; neurological disease; infection; human; secreted protein; gene; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to novel genes (ABL89449-ABL90853) and proteins (ABB89040-ABB90444) useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant) agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital;
                ATGGCTGGTACATCCTGCTCGTCACCAGCGATGTGCTCACCATCTCGGGGCACCATCATGA
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                                                                        AGATCGGCATCGAGGCCAAGAACTTGGCGAGCTACGACGTCTGCAGCATCCTCCTGGGCA
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P-PSDB; ABB89949.
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haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) cardiovascular disorders such as myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f) infectious diseases such as viral, bacterial, fungal note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human, secreted protein, cytostatic, anti-proliferative, vulnerary, immunosuppressive, antibacterial, diagnosis, immune system; chemotaxis, hyperproliferative disorder; infectious disease, tissue regeneration, screening, food additive; preservative, wound healing, hyper-vascular disease, ss.
                 AGATCGGCATCGAGGCCAAGAACTTGGCGAGCTACGACGTCTGCAGCATCCTCCTGGGCA
                                                                                                                                                        ATATCCTCATCGCCACACTGCGGGTGGCCCTGCCCAGCGTCATGCGCCTTCTGCTGCTGCTGCG
AGAICGGCAICGAGGCCAAGAACTIGGCGAGCTACGACGICTGCAGCAICCTGGGCA
                                                                    CCTCGACGCTGCTGGTGGGCGTGATCCGCTACCTGACCTTCTTCCACACTACA
                                                                                      ATATCCTCATCGCCACACTGCGGGTGGCCCTGCCCAGCGTCATGCGCTTCTGCTGCTGCG
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bind to the proteins. The proteins or polynucleotide sequences may be used as food additives or preservatives, to increase or decrease storage capabilities, fat content, lipid, protein, carbohydrate, vitamins, minerals, co-factors or other nutritional components. Agonists or antagonists of the proteins may be used to prevent scar tissue growth during wound healing, and hyper-vascular diseases. AAA39043 to AAA39051 and AAB08890 are sequences used in the exemplification of the present invention.
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include cancer, inflammation, atherosclerosis, epilepsy and diarrhoea.

MEMAP proteins can be used to screen for compounds which specifically bind MEMAP including antibodies, oligonucleotides, proteins and small molecules. MEMAP polynucleotides can be used to prepare transgenic animals which can be studied to provide information concerning human cs assertion of MEMAP antibodies are useful in immunoassays for the detection of MEMAP protein and can be used as antagonists to treat or prevent a disorder associated with MEMAP. Polynucleotides encoding MEMAP concerns and can be delivered to target cells with genetic abnormalities with respect to the expression of MEMAP to treat or prevent a disorder associated with MEMAP.

Sequence 2052 BP; 375 A; 670 C; 582 G; 425 T; 0 other:
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                 99.9%; Score 1099.4; DB 22; Length 2052;
Larity 99.9%; Pred. No. 4.4e-239;
Conservative 0; Mismatches 1; Indels 0; (
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The invention relates to human nucleic acids (AAI57798-AAI61369) and the encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are useful
                                                                                                                                                                                                                                                                                                                                                  Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer; peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
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25-APR-2000; 2000US-0552317.
09-JUL-2000; 2000US-0598042.
19-JUL-2000; 2000US-0620312.
03-AUG-2000; 2000US-0653450.
14-SEP-2000; 2000US-0662191.
19-OCT-2000; 2000US-0693036.
29-NOV-2000; 2000US-0727344.
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P-PSDB; AAM40080.
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of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and Note: The sequence data for this patent 2:2
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Zhang J;
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Xue AJ,
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Xu C, Xue
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25-APR-2000; 2000US-0552317.
09-JUL-2000; 2000US-06298042.
19-JUL-2000; 2000US-0620312.
03-AUG-2000; 2000US-0653450.
14-SEP-2000; 2000US-0662191.
19-OCT-2000; 2000US-0693036.
29-NOV-2000; 2000US-0727344.
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Wang Z, Wehrman T,
Zhou P, Goodrich
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P-PSDB; AAM41866.
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               immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin'inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and C.N.S disorders.

Note: The sequence data for this patent did not form part of the printed specification.
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Pred. No. 6e-224;
0; Mismatches 1; Indels 1;
  encoded polypeptides (AAM38642-AAM42213) with nootropic
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                                                                                                                                                                                                                                                                                                                                                                                                                         Human; rat; mouse; skin cell; skin wound; cancer; growth defect;
developmental defect; inflammatory disease; dermatological; vulnerary;
immunomodulator; anti-inflammatory; cytostatic; neuroprotective; gene;
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The invention relates to isolated polynucleotide (I) and probes, polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The colynucleotides are also used in diagnostics as expressed sequence tags. (I) creatore normal activity of (II) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (II) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations and to produce other types of data and products dependent on DNA and amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic coding sequences of the invention.

Note: The sequence data for this patent did not appear in the printed separation in humbion in humbion in humbion in humbion in humbion in humbion in humbion in humbion in humbion in humbion in humbion in humbion in humbion in humbion in humbion in humbion humb
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The invention relates to novel genes (ABL89449-ABL90853) and proteins (ABB89040-ABB90444) useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant) agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune disorders e.g. Addison's disease, allergies, autoimmune haromytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) cardiovascular disorders such as myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f) infectious diseases such as viral, bacterial, fungal and parasitic infections.
                                                                                                                                                                                                                                                                                                              Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral; antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer; vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic; cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder; neurological disease; infection; human; secreted protein; gene; ss.
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Best Local Similarity 91.1%; Pred. No. 1.5e-112;
Matches 622; Conservative 4; Mismatches 4; Indels 53;
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                         C-GGATCCCCATCAGCCTGGAGACCCAGGCCCACATCCAGGAGTGTAAGC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens.
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The invention relates to isolated polynucleotide (I) and probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome collymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The collymerased genes in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity amin to produce other types of data and products dependent on DNA and amin and an analysament in ording sequences. AAS64197-AAS94564 represent novel human
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                                                                                                                                           New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess
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Note: The sequence data for this patent did not appear in the specification, but was obtained in electronic format directly at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  41.6%; Score 458; DB 23; Length 499; 98.9%; Pred. No. 3.9e-94; ive 0; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1101
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                                                                                                                                                                                                                                                                                       Claim 1; SEQ ID No 8077; 103pp; English
  YT;
Tang
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Best Local Similarity 98.97
Matches 461; Conservative
                                                    WPI; 2001-639362/73
P-PSDB; ABG08086.
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Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
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                                                                                                                                                                                                                                                                                                                                                           New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutation responsible for genetic disorders or other traits and to assess
                                                                                                                  i; gene mapping; gene therapy; forensic,
imaging; diagnostic; genetic disorder;
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                                                                                           human diagnostic protein #25122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30.3%; Score 334; DB 23;
100.0%; Pred. No. 4.7e-66;
:ive 0; Mismatches 0;
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                          ВP
                         CDNA; 635
                                                                                                                                                                                                                                                                                                     Tang YT
                                                                                                                                                                                                                                            31-MAR-2000; 2000US-0540217.
23-AUG-2000; 2000US-0649167.
                                                                                                                                                                                                                       30-MAR-2001; 2001WO-US08631.
                                                                                                                 mapping;
                                                                     entry)
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                                                                                                                              food supplement; medical
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P-PSDB; ABG25131.
                                                                                                                                                                                                                                                                                                     Liu C
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Best Local Similarity
Matches 334; Conser
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                         standard;
                                                                                           encoding novel
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                                                                                                                  chromosome
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                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                              biodiversity
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          AAS89318/c
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The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polypeptide (II) sequences. (I) is useful as hybridisation probes, and gene mapping, and in recombinant production of (II). The and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical ingisorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations in cresponsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AAS64197-AAS94564 represent novel human
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                                     ATCCTCTCTGGGCACCTCGACGCTGGTGTGGTGGGCGTGATCCGCTACCTGACCTTC
                                                                                                                                  TTCCACAACTACAATATCCTCATCGCCACACTGCGGGTGGCCCTGCCCAGCGTCATGCGC
                                                                                                                                                                       TTCCACAACTACAATATCCTCATCGCCACACTGCGGGTGGCCCTGCCCAGCGTCATGCGC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; chromosome mapping; gene mapping; gene therapy; forensic; supplement; medical imaging; diagnostic; genetic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DNA encoding novel human diagnostic protein #1735.
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                                                                                                                                                                                                                                                                       GTCATCTACCTGGGCTA
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P-PSDB; ABG01744.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; chromosome
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61 GAGCGGATGACACCTTCGCAGCCTACACGCGGGAGCAGCTGTACCAGGCCATCTTCCATG 120
                                                                                                                                                                                                                            GAGCGGATGACACCTTCGCAGCCTACACGCGGGAGCAGCTGTACCAGGCCATCTTCCATG 520
                                                                                                                                                                                                                                                                 AGTACCTGGCGTTGCCTGACGTGTCACTGGGCCGGTATGCGTATGTCCGTG 180
                                                                                                                                                                                                                                                                                                                      GTGGGGGTGACCCTTGGACCAATGGCTCAGGGCTTGCTCTGCCAGCGGTACTACTACC 240
diagnostic coding sequences of the invention.
Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                               iggacccgcccaacgacacarrigacarrgar-ccgarggragerg 297
                                                                                                                                                                                                                                                                                                                                                                                                1; Gaps
                                                                                                Query Match
25.7%; Score 282.8; DB 23; Length 776;
Best Local Similarity 99.0%; Pred. No. 1.9e-54;
Matches 295; Conservative 0; Mismatches 2; Indels 1;
                                                                    Sequence 776 BP; 141 A; 243 C; 248 G; 144 T; 0 other;
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AF287269 Homo sapi
BC005149 Homo sapi
BC005149 Homo sapi
AX280019 Sequence
AX280019 Sequence
AX083508 Sequence
AX083509 Mus muscu
BC005651 Mus muscu
AY083531 Mus muscu
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CUS	AX280021 1740 bp DNA linear PAT 02-NOV-2001
FINITION	Sequence 3 from Patent WO0177331.
CESSION	AX280021
RSION	AX280021.1 GI:16607475
YWORDS	
VURCE	Homo sapiens (human)
ORGANISM	Homo sapiens
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
	Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
FERENCE	1
AUTHORS	Curtis, R.A. and Silos-Santiago, I.
TITLE	Human trp-like calcium channel protein-2 (tlcc-2)
JOURNAL	Patent: WO 0177331-A 3 18-OCT-2001;

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2 (bases 1 to 2004)
2 (bases 1 to 2004)
Bargal, R., Avidan, N., Ben-Asher, E., Olender, Z., Zeigler, M.,
Frumkin, A., Raas-Rothschild, A., Glusman, G., Lancet, D. and Bach, G.
Direct Submission
Submitted (26-MAR-2000) Molecular Genetics, The Weizmann Institution
of Science, P. O. Box 26, Rehovot 76100, Israel
Location/Qualifiers
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 2004)
Bargal,R., Avidan,N., Ben-Asher,E., Olender,Z., Zeigler,M.,
Frumkin,A., Raas-Rothschild,A., Glusman,G., Lancet,D. and Bach,G.
Identification of the gene causing mucolipidosis type IV
Nat. Genet. 26 (1), 118-123 (2000)
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Best Local Similarity, 100.0%; Pred. No. 9.7e-195;
Matches 1101; Conservative 0; Mismatches 0;
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22-SEP-2000 complete

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Sugano, S., Suzuki, Y., Ota, T., Obayashi, M., Nishi, T., Isogai, T., Shibahara, T., Fanaka, T. and Nakamura, Y., Shibahara, T., Tanaka, T. and Nakamura, Y., Shibahara, T., Tanaka, T. and Nakamura, Y., Direct Submission

Submitted (29-Aug-2000) Sumio Sugano, Institute of Medical Science, University of Tokyo, Laboratory of Genome Structure Analysis, Human Genome Center; Shirokane-dai, 4-6-1, Minato-ku, Tokyo 108-8639, Japan (B-mail:cdnal@ims.u-tokyo.ac.jp, Tel:81-3-5449-5286, Fax:81-3-5449-5416)

NEDO human cDNA sequencing project supported by Ministry of International Trade and Industry of Japan; cDNA full insert sequencing: Research Association for Biotechnology; cDNA library construction, 5'- & 3'-end one pass sequencing: Departent of Virology and Human Genome Center, Institute of Medical Science, University of Tokyo (partly supported by Science and Technology,
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Okamoto,S., Okitani,R., Ota,T., Suzuki,Y., Obayashi,M., Nishi,T.,
Shibahara,T., Tanaka,T., Nakamura,Y., Isogai,T. and Sugano,S.
NEDO human cDNA sequencing project
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Homo sapiens cDNA: FLJ22449 fis, clone HRC09609.
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AK026102.1 GI:10438843
oligo capping; fis (full insert sequence).
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Slaugenhaupt,S.A.
Direct Submission
Submitted (13-JUL-2000) Molecular Neurogenetics, Harvard Institute
of Human Genetics, 77 Ave. Louis Pasteur, HIM Building Room 422,
Boston, MA 02115, USA
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eukaryota; Metazoa; Chordata; Catarrhini; Hominidae; Homo.

1 (bases 1 to 2051)
Sun,M., Goldin,E., Stahl,S., Falardeau,J.L., Kennedy,J.C., Acierno,J.S. Jr., Bove,C., Kaneski,C.R., Nagle,J., Bromley,M.C., Colman,M., Schiffmann,R. and Slaugenhaupt,S.A.
Mucolipidosis type IV is caused by mutations in a gene encoding a novel transient receptor potential channel
Hum. Mol. Genet. 9 (17), 2471-2478 (2000)
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Pred. No. 9.6e-195;
Mismatches 0;
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Matches 1101; Conservative 0;
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PRI 12-JUL-2001
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This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 9844923.
                                                                                                                                                                                                                                                                                                                                                                         CDNA Library Preparation: Rubin Laboratory CDNA Library Preparation: Rubin Laboratory CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Institute for Systems Biology http://www.systemsbiology.org contact: amadan@systemsbiology.org Anup Madan, Rachel Dickhoff, Jessica Fahey, Stephanie Ford, Julia Greene, Mark Ketteman and Anuradha Madan
                                                                                                                                                                                                          Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 2087)

Strausberg,R.

Direct Submission
Submitted (26-MAR-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
1420 IGGCIGICAICIACCIGGGCIACIGCIICIGIGGCIGGAICGIGCIGGGGCCCIAICAIG
                                                                                     Homo sapiens, mucolipin 1, clone MGC:3287 IMAGE:3507836, mRNA, complete cds.
BC005149
BC005149.1 GI:13477346
MGC.
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/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="LocusID:57192"

/db_xref="taxon:9606"

/clone="MGC:3287 IMAGE:3507836"

/tissue_type="Brain, neuroblastoma"

/clone_lib="NIH MGC_19"

/lab_host="DH10B-R"

/note="Vector: pOTB7"
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Contact: MGC help desk
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
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/ db_xref="taxon:9606"
141_ .1883
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CGRDPSEEHSLLVN"
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Human trp-like calcium channel protein-2 (tlcc-2)

Patent: WO 0177331-A 1 18-OCT-2001;

MILLENIUM PHARMACEUTICALS, INC. (US)

Location/Qualifiers
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100.0%; Pred. No. 9.6e-195;
iive 0; Mismatches 0;
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Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Ve
Mammalia; Eutheria; Primates; Catarrhini;
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                                Indels
   Score 1101; DB 9;
Pred. No. 9.6e-195;
Mismatches 0;
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c. ITALY
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CGRDPSEEHSLLNN"

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Borsani, G.
Direct Submission
Submitted (08-SEP-2000) Borsani
Milano, ITALY
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Cloning of the gene encoding a novel integral membrane protein, mucolipidin-and identification of the two major founder mutations causing mucolipidosis type IV
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   ATCCCCCGAGGGGCCCCTCCGCCCCCAGGACGATCTCACCCTCT
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HOMO sapiens mRNA for mucolipidin (ML4 gene).

AJ293970

AJ293970.1 GI:10129689

ML4 gene; mucolipidin.

Homo sapiens (human)

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutelemammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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DEFINITION
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KEYWORDS
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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ACGGAGACAACAGCTTCCGGCTCCTGTTTGACGTGGTGGTCATCCTCACCTGCTCCTGT
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Patent: WO 0112662-A 50 22-FEB-2001;
Incyte Genomics, Inc. (US)
Location/Qualifiers
1. 2052
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/noTe="Incyte ID No: 977658CB1"
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Decision of the gene encoding a novel integral membrane protein, mucolipidian-and identification of the two major founder mutations causing mucolipidian-and identification of the two major founder mutations causing mucolipididis type IV

Am. J. Hum. Genet. 67 ($), 1110-1120 (2000)

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ENS Direct Submission

AL Submitted (02-AUG-2000) Eorsani G., Telethon Institute of Genetics and Medicine - TIGEM, Via Olgettina 59, 20132 Milano, ITALY

K Revised by author

I . 2272

AL Submitted (12-AUG-2000) Eorsani G., Telethon Institute of Genetics and Medicine - TIGEM, Via Olgettina 59, 20132 Milano, ITALY

K Revised by author

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K Revised by author

I . 2272

AL Submitted (12-AUG-2000) Eorsani G., Telethon Institute of Genetics and Medicine - TIGEM, Via Olgettina 59, 20132 Milano, ITALY

AL Submitted (12-AUG-2000) Eorsani G., Telethon Institute of Genetics of Augustant Endowoseners of Augustant Endowoseners of Augustant Endowoseners of Augustant Endowoseners of Augustant Endowoseners of Augustant Endowoseners of Augustant Endowoseners of Augustant Endowoseners of Augustant Endowoseners of Augustant Endowoseners of Augustant Endowoseners of Augustant Endowoseners of Augustant Endowoseners of Augustant Endowoseners of Augustant Endowoseners of Augustant Endowoseners of Augustant Endowoseners of Augustant Endowoseners of Augustant Endowoseners of Augustant Endowoseners of Augustant Endowoseners of Augustant Augustant Endowoseners of Augustant Augustant Endowoseners of Augustant Augustant Augustant Augustant Augustant Augustant Augustant Augustant Augustant Augustant Augustant Augustant Augustant Augustant Augustant Augustant Augustant Augu
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82.3%; Pred. No. 6.6e-149;
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HOMO Sapiens mRNA for mucolipidin, AJ293659
AJ293659.1 GI:10045134
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Homo sapiens
Eukaryota; Metazoa; Chordata; Cran Mammalia; Eutheria; Primates; Cata
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ISM Mus musculus (house mouse)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.;

I (bases 1 to 2003)

SR Falardeau, J.L., Kennedy, J.C., Acierno, J.S., Sun, M., Stahl, S.,

Goldin, E. and Slaugenhaupt, S.A.

E Cloning and characterization of the mouse Mcoln1 gene

NAL Unpublished

NAE (bases 1 to 2003)

IORS Falardeau, J.L., Kennedy, J.C., Acierno, J.S., Sun, M., Stahl, S.,

Goldin, E. and Slaugenhaupt, S.A.

Direct Submission

SNAL Submitted (30-AUG-2000) Molecular Neurogenetics, Harvard Institute of Human Genetics, 77 Ave. Louis Pasteur, Boston, MA 02115, USA

Location/Qualifiers

source

Location/Qualifiers

source

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0; Mismatches 156; Indels 0;
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/ Gene="Wector: pcmv-sportor"
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VLSLFIALITGAYPTTHRPGGTGTEKSBLQAYIEQCQDSPTSGKFRRGSGSACSLFCC
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0; Mismatches 156;
                                                                   /note="Vector: pCMV-SPORT6"
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/clone_lib="NCI_C"
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Mus musculus (house mouse)

Mus musculus merazoa; Chordata; Craniata; Vertebrata; Buteleostomi;

Bujaryota; Merazoa; Chordata; Griurognathi; Muridae; Murinae; Mus.

1. (bases 1 to 2039)

Strausberg, R.D.; Collins, F.S., Wagner, L., Shamen, C.M., Schuler, G.D., Altechni, S.F.; Zeeberg, B., Wagner, L., Shamen, C.M., Schuler, G.D., Altechni, S.F.; Jordan, H., Moore, T., Max, S.I., Mang, J., Haieh, F., Diacchero, L., Sarvent, T.E., Mang, J., Haieh, F., Scheckor, L., Shamen, C.M., Hong, L., Stapelcon, M., Soares, M. B., Buetow, M. R., Calling, F.S., Carning, M.F., Parmer, A.B., Marusina, K., Parmer, A.B., M., Mang, J., Haieh, F., Scheckor, T.E., Parme, C., Raha, S.S., Loguellano, M.A., Peters, G.J., Abramson, R.D., Mullahy, S.J., Bosak, S.A., McEwan, F.J., Malek, J.A., Gancian, P.J., Hullah, S.S., Loguellano, M.A., Peters, G.J., Morley, K.C., Hale, S., Garcia, A.M., Garcian, P.J., Hullah, S.G., Garcia, A.M., Madan, A., Wodn, P.J., Hullyk, S.W., Villalon, D.K., Malek, J.A., Garcian, M.J., Malek, J.A., Garcian, R.J., Halton, B.W., Madan, A., Young, A.C., Shavchenko, Y., Boutferd, G., Blakesley, M., Madan, A., Young, A.C., Shavchenko, Y., Boutferd, G., Blakesley, M., Tourdhan, J.J., Maria, M., Schen, J.S., Krzywinski, M.I., Schake, J., Smills, D.E., Schen, J.S., Krzywinski, M.I., Sakake, J., Smills, D.E., Schen, J.S., Krzywinski, M.I., Schake, J., Smills, D.E., Schen, J.S., Krzywinski, M.I., Sakake, J., Smills, D.E., Schen, J. Schen, J.S., Shave, J., Schen, J.S., Shave, J., Schen, J.S., Schen, J.S., Shave, J., Schen, J.S., Schen, J.S., Shave, J., Sakake, J., Smills, D.E., Schen, J.S., Shave, J., Schen, J.S., Schen, J.S., Shave, J., Schen, J.S., Schen, J.S., Shave, J., Schen, J.S., Shave, J., Schen, J.S., Shave, J., Schen, J.S., Shave, J., Schen, J.S., Shave, J., Schen, J.S., Shave, J., Schen, J.S., Shave, J., Schen, J.S., Shave, J., Shave, J., Shave, J., Shave, J., Shave, J., Shave, J., Shave, J., Shave, J., Shave, J., Shave, J., Shave, J., Shave, J., Shave, J., Shave, J., Shave, J., Shave, 
                                       CDNA clone MGC:7172 IMAGE:3257440),
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/organism="Mus musculus"
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/strain="NMRI"
/db_xref="taxon:10090"
/clone="MGC:7172 IMAGE:3257440"
/tissue_type="Mammary tumor, WAP-Tag model. 5 months old, gross tissue."
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This clone was selected for full length sequencing because it passed the following selection criteria: Hexamer frequency ORF analysis, Similarity but not identity to protein.

Location/Qualifiers
1. .2039
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Baylor College of Medicine Human Genome

Sequencing Center

Center code: BCM-HGSC

Web site: http://www.hgsc.bcm.tmc.edu/cdna/

Contact: amg@bcm.tmc.edu

Gunaratne, P.H., Garcia, A.M.

Kowis, C.R., Sneed

A.N., Gibh.
                          Mus musculus mucolipin 1, mRNA (complete cds. BC005651 GI:13542918
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VERSION
KEYWORDS
SOURCE
ORGANISM
                                         LOCUS
DEFINITION
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Pred. No. 3.8e-49;
0; Mismatches 422; Indels
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Best Local Similarity 58.1%;
Matches 643; Conservative
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Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

I (bases 1 to 1662)

Di Palma,F., Belyantseva,I.A., Kim,H.J., Vogt,T.F., Kachar,B. and

Noben-Trauth,K.

Mutations in Mcoln3 associated with deafness and pigmentation

defects in varitint-waddler (Va) mice

Notes in varitint-waddler (Va) mice

Location Noben-Trauth,K.

Direct Submission

Location Disorders, National Institutes of Health, 5 Research

Communication Disorders, National Institutes of Health, 5 Research

Court, Rockville, MD 20850, USA

Location/Qualifiers
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/organism="Mus musculus"

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/strain="C57BL/6J"

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/chromosome="3"

/map="between D3Mit320 and D3Mit86"
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   DB 10;
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Best Local Similarity 58.1%;
Matches 643; Conservative
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Mus musculus

Eukaryota; Metazoa; Chordata; Crania

Mammalia; Eutheria; Rodentia; Sciuro

1 (bases 1 to 1712)

Falardeau, J.L., Kennedy, J.C., Aciern
Cloning of the mouse Mcoln3 gene
Unpublished

2 (bases 1 to 1712)

Falardeau, J.L., Kennedy, J.C., Aciern
Direct Submission
Submitted (24-JAN-2002) Molecular Ne
of Human Genetics, 77 Ave. Louis Pas
Boston, MA 02115, USA
Location/Qualifiers

1. 1712

/organism="Mus musculus"
/mol_type="mRNA"
/mol_type="mRNA"
/chramosome="3"
/db_xref="taxon:10090"
/chromosome="3"
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JP 2002191363-A/11649.
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Pred. No. 1.4e-45;
0; Mismatches 434; Indels 42;
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Catarrhini; Hominidae;
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                                                                ccecrcacrcrcca 1101
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Homo sapiens
Eukaryota; Metazoa; Chordata; Cr
Mammalia; Eutheria; Primates; Cr
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Best Local Similarity 57.0%;
Matches 631; Conservative
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28-JUL-2000 JP 2000280990
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JUNICHI YAMAMOTO, SHIZUKO ISHII, TOMOYASU SUGIYAMA, AI WAKAMATSU,
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0; Mismatches 357; Indels
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Location/Qualifiers
                                                                                                                                                                                                                                                                                                                        /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
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Sequence 3, Appli
Sequence 50, Appl
Sequence 26, Appl
Sequence 1, Appli
Sequence 1, Appli
Sequence 608, App
Sequence 608, App
Sequence 27041, A
Sequence 12313, A
Sequence 161, App
Sequence 28893, A
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                                             ; Search time 63.6775 Seconds (without alignments) 8465.189 Million cell updates/sec
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US-10-103-458-3

US-09-965-529-50

US-09-969-680A-50

US-09-820-893-26

US-09-820-893-26

US-10-103-458-1

US-09-866-050A-608

4 US-10-152-661-608

US-09-918-995-27041

US-09-918-95-27041

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US-09-864-761-12313

US-09-864-761-28893

US-09-864-761-28893

US-09-764-872-676

US-09-764-872-676

US-10-305-810-4
                                                                                                                                                of hits satisfying chosen parameters
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GenCore version (c) 1993 - 2003
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Pred. No. 1.1e-32;
0; Mismatches 1; Indels 0;
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; Batent No. US20020035056A1
; GENERAL INFORMATION:
; APPLICANT: Curtis, Rory A.J.
; APPLICANT: Silos-Santiago, Immaculada
; TITLE OF INVENTION: 54420, A NOVEL HUMAN CALCIUM CHANNEL
; FILE REFERENCE: MNI-125CP
; CURRENT APPLICATION NUMBER: US/09/828,466
; CURRENT FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 09/544,797
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 99.3%;
Matches 143; Conservative
                                                                                                                                                                                                                                                                                                                          TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                ; NAME/KEY: CDS
; LOCATION: (1)...(1740)
US-09-828-466-3
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RESULT 2
US-10-103-458-3
i Sequence 3, Application US/10103458
j Publication No. US20020197680A1
j GENERAL INFORMATION:
i TITLE OF INVENTION:
f FILE REFERENCE: MNI-125
i CURRENT APPLICATION NUMBER: US/10/103,458
i CURRENT FILING DATE: PEIOE FILING DATE: 2000-04-07
j PRIOR FILING DATE: PEIOE FILING DATE: 2000-04-07
j PRIOR FILING DATE: PEIOE FILING DATE: 2000-04-07
j SEQ ID NOS: 3
j SOFTWARE: PATENTIN VEY. 2.0
j SEQ ID NO 3
j LENGTH: 1740
j TYPE: DNA
j ORGANISM: Homo sapiens
j FEATURE:
j NAME/KEY: CDS
j LOCATION: (1)..(1740)
US-10-103-458-3
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US-09-965-529-50
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APPLICANT: TANG, W. Tom
APPLICANT: TANG, W. Tom
APPLICANT: TANG, W. Tom
APPLICANT: BANDMAN, Olga
APPLICANT: BANDMAN, Olga
APPLICANT: BANDMAN, Olga
APPLICANT: BANGHN, Mariah R.
APPLICANT: AZIMZAI, Yalda
APPLICANT: BAUGHN, Mariah R.
APPLICANT: BAUGHN, Mariah R.
APPLICANT: LU, Dyung Aina M.
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APPLICANT: LU, Dyung Aina M.
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Pred. No. 1.1
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Publication No. US20020182671A1
GENERAL INFORMATION:
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Best Local Similarity 99.3
Matches 143; Conservative
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US-09-965-529-50
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                                                                          58 GCAGTICCGCTCACTCTCCAIGGIGICTGAGTGCCTGTICTCGCTCAICAATGGGGACGA
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; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030124649A1 977658CB1
US-09-969-680A-50
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larity 99.3%; Pred. No. 1.1e-32;
Conservative 0; Mismatches 1; I
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APPLICANT: LAL, Preet; YUE, Henry
APPLICANT: TANG, Y. Tom; BANDMAN, Olga
APPLICANT: BAUGHN, Mariah R.; LU, Dyung Aina M.; APPLICANT: BAUGHN, Mariah R.; LU, Dyung Aina M.; FILE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS; FILE REFERENCE: PF-0731-1 USA; CURRENT APPLICATION NUMBER: US/09/969,680A; CURRENT FILING DATE: 2001-10-02; PRIOR APPLICATION NUMBER: 60/149,641
PRIOR FILING DATE: 1999-08-17
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 74
SOFTWARE: PERL Program; SOFTWARE: PERL Program; SEQ ID NO 50
LENGTH: 2052
        Score 142.4; DB 1 Pred. No. 1.1e-32;
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US-09-820-893-26
; Sequence 26, Application US/09820893
; Patent No. US20020076705A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 31 Human Secreted Proteins
; FILE REFERENCE: PZ033P1
                             ed. No. 1.1
Mismatches
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     70.8%;
Query Match 70.8
Best Local Similarity 99.3
Matches 143, Conservative
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118 CATGITIGIGACGITCGCCGCCATGCAGGCGCAGGGCCGCAGCAGCAGCTGGTGGCT
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                                                                                                                                                                                 Sequence 1, Application US/10103458
; Publication No. US20020197680A1
; GENERAL INFORMATION:
; APPLICANT: Curtis, Rory A.J.
; TITLE OF INVENTION: 54420, A NOVEL HUMAN CALCIUM CHANNEL
; FILE REFERENCE: MNI-125
; CURRENT APPLICATION NUMBER: US/10/103,458
; CURRENT FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: US/09/544,797
; PRIOR FILING DATE: PRIOE FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: Patentin Ver. 2.0
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for Their Use
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APPLICANT: Watson, James D.
APPLICANT: Strachan, Lorna
APPLICANT: Sleeman, Matthew
APPLICANT: Onrust, Rene
APPLICANT: Murison, James G.
APPLICANT: Kumble, Krishanand D.
TITLE OF INVENTION: Compositions Isolated Fro
TITLE OF INVENTION: and Methods for Their Us
FILE REFERENCE: 11000.1011c4U
CURRENT APPLICATION NUMBER: US/09/866,050A
CURRENT FILING DATE: 2001-05-24
NUMBER OF SEQ ID NOS: 725
SOFTWARE: FastSEQ for Windows Version 4.0
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Pred. No. 1.16
0; Mismatches
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US-09-866-050A-608
; Sequence 608, Application US/09866050A
; Publication No. US20030040471A1
; GENERAL INFORMATION:
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Best Local Similarity 86.5%;
Matches 135; Conservative
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ilarity 99.3%;
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; Sequence 1, Application US/09828466
; Patent No. US20020035056A1
; GENERAL INFORMATION:
; APPLICANT: Curtis, Rory A.J.
; APPLICANT: Silos-Santiago, Immaculada
; TITLE OF INVENTION: 54420, A NOVEL HUMAN CALCIUM CHANNEL
; FILE REFERENCE: MNI-125CP
; CURRENT APPLICATION NUMBER: US/09/828,466
; CURRENT FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 09/544,797
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patentin Ver. 2.0
; LENGTHARE: Patentin Ver. 2.0
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99.3%; Pred. No. 1.1e-32;
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Pred. No. 1.1e-32;
0; Mismatches 1
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CURRENT APPLICATION NUMBER: US/09/820,8
CURRENT FILING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: 09/531,119
PRIOR FILING DATE: 2000-03-20
PRIOR APPLICATION NUMBER: 60/102,895
PRIOR FILING DATE: 1998-10-02
NUMBER OF SEQ ID NOS: 140
SOFTWARE: Patentin Ver. 2.0
SOFTWARE: Patentin Ver. 2.0
IENGTH: 2094
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (2078)
COTHER INFORMATION: n equals a,t,g, or
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Best Local Similarity 99.3%;
Matches 143; Conservative C
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ORGANISM: Homo sapiens
FEATURE:
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; LOCATION: (141),.(1880
US-09-828-466-1
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US-09-828-466-1
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                                                                                                      52 CCTCTGGCAGTTCCGCTCACTCTCCATGGTGTCTGAGTGCCTGTTCTCGCTCATCAATGG 111
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PRIOR PILING DATE: 2001-11-29
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                                    Gaps
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APPLICANT: Ju, Jingfang
APPLICANT: Huang, Chunli
APPLICANT: Zhong, Haihong
APPLICANT: Tailon, Bruce E.
APPLICANT: Chant, John A.
APPLICANT: Chant, John A.
APPLICANT: Smithson, Glennda
APPLICANT: Millet, Isabelle
TITLE OF INVENTION: ANTISENSE MODULATION OF PROTEIN EXPRESSION
FILE REFERENCE: 21402-501
CURRENT APPLICATION NUMBER: US/10/305,810
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| Similarity 60.7%; Pred. No. 0.0046; 91; Conservative 0; Mismatches 50; Indels
                                                                                                                                                                                                                                                                                                                       205 TGATGACATGITTGCAACCTITGCCCAAATCCAGCAGAAG--
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ilarity 61.5%; Pred. No. 0.0074;
Conservative 0; Mismatches 46;
                                                                                                                                                                                                                                                                                                                                                                                           172 GIGGCICTICTCCCAGCICTACCTTTACTC 201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     256 GIGGCIGITCAGICGICIGIAITIAIAIIC 285
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; Sequence 4, Application US/10305810; Publication No. US20030176385A1; GENERAL INFORMATION:
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EXPRESSED IN PLACENTA, SIGNAL = 0.5

EXPRESSED IN ADULT LIVER, SIGNAL = 0.57

EXPRESSED IN BRAIN, SIGNAL = 0.46

SWISSPROT HIT: Q13563, EVALUE 6.00e-03

EST HUMAN HIT: N41861.1, EVALUE 5.00e-08

NT HIT: g18922819, EVALUE 1.00e-113
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                                                                 PRIOR APPLICATION NUMBER: PCT/USO1/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/USO1/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/USO1/00668
PRIOR FILING DATE: 2001-01-30
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PRIOR PILING DATE: 2001-01-29
NUMBER OF SED ID NOS: 49117
SEQ ID NO 28893
LENGTH: 207
TVPR: DNA
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FILE REFERENCE: PA125; CURRENT APPLICATION NUMBER: US/09/764,872; CURRENT FILING DATE: 2001-01-17; Prior application data removed - consult PAL; NUMBER OF SEQ ID NOS: 957; SOFTWARE: Patentin Ver. 2.0; LENGTH: 668; TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20.9%; Score 42;
                                    DATE: 2001-01-30
ATION NUMBER: PCT/US01/00664
     NUMBER: PCT/US01/00667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CGCCGCCATGCAG 145
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ORGANISM: Homo sapiens
FEATURE:
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; ORGANISM: Homo
US-09-764-872-676
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US-09-764-872-676
                                       FILING
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1321 ATGTTTGCAACCTTTGCCCAAATCCAGCAGAAG------AGCATCTTGGTGTGGCTG 1371

Search completed: October 27, 2003, 18:02:14 Job time: 75.6775 secs

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; Search time 65.3268 Seconds (without alignments) 8305.735 Million cell updates/sec
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(HUMA-) HUMAN GENOME SCI INC

SM; Ruben ď Rosen

WPI; 2001-483426/52.

Nucleic acids encoding human immune/hematopoietic antigen polypeptides, useful for preventing, diagnosing and/or treating cancers and metastasis -

Disclosure; SEQ ID NO 28639; 3071pp + Sequence Listing; English.

AAKS4951 to AAK64702 encode the human immune/haematopoietic antigen (I) amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic activity, and can be used in gene therapy and vaccine production. (I) proteins and polynucleotides may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate (I) expression. For example, they may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome

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that affect the activity of (I) by expressing inactive proteins or to supplement the patients own production of (I). Additionally, (I) polymucleotides may be used to produce the secreted (I), by inserting the mucleic acids into a host cell and culturing the cell to express the protein. (I) proteins and polymucleotides may be used to prevent, diagnose and treat immune/haematopoietic-related diseases, especially cancers and cancer metastases of haematopoietic-derived cells. AAK64703 to AAK87694 represent human immune/haematopoietic antigen genomic sequences from the present invention. AAK54942 to AAK54950 and AAM82169 represent sequences used in the exemplification of the present invention.
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ing human immune/hematopoietic antigen polypeptides, ng, diagnosing and/or treating cancers and

NO 28638; 3071pp + Sequence Listing; English

AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
activity, and can be used in gene therapy and vaccine production. (I)
proteins and polynucleotides may be used in the prevention, diagnosis and
treatment of diseases associated with inappropriate (I) expression. For
example, they may be used to treat disorders associated with decreased
cypression by rectifying mutations or deletions in a patient's genome
that affect the activity of (I) by expressing inactive proteins or to
supplement the patients own production of (I). by inserting
polynucleotides may be used to produce the secreted (I), by inserting
the nucleic acids into a host cell and culturing the cell to express the
protein. (I) proteins and polynucleotides may be used to prevent,
diagnose and treat immune/haematopoietic-related diseases, especially
cancers and cancer metastases of haematopoietic antigen genomic
to AAK87694 represent human immune/haematopoietic antigen genomic

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                                                                                                                                                                                                                              61 GITCCGCTCACTCCATGCTGTCTGAGTGCCTGTTCTCGCTCATCAATGGGGACGACAT 120
                                                                                                                                                                                                                                                                                                  GTTTGTGACGTTCGCCGCCATGCAGGCGCAGCAGGCCGCAGCAGCCTGGTGTGGCTCTT 180
sequences from the present invention. AAK54942 to AAK54950 and AAM82169 represent sequences used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; chromosome mapping; gene mapping; gene therapy; forensic;
food supplement; medical imaging; diagnostic; genetic disorder; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess
                                                                                     Length 20046;
                                                   Sequence 20046 BP; 4133 A; 5821 C; 5659 G; 4433 T; 0 other;
                                                                                                                        Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA encoding novel human diagnostic protein #25126.
                                                                                       100.0%; Score 201; DB 22;
100.0%; Pred. No. 6.9e-44;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 1; SEQ ID No 25126; 103pp; English.
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                                                                                                                                                                                                                                                                                                                                                                    CTCCCAGCTCTACCTC 201
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23-AUG-2000; 2000US-0649167
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                                                                                Query Match
Best Local Similarity 100.0
Matches 201; Conservative
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a food supplement, (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic coding sequences of the invention.

Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to isolated polynuclectide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome
                                                                                                                                                                                                                                                                                            GTTCCGCTCACTCTCCATGGTGTCTGAGTGCCTGTTCTCGCTCATCAA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ectide and encoded polypeptides, useful in is, gene mapping, identification of mutations ic disorders or other traits and to assess
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         i gene mapping; gene therapy; forensic;
imaging; diagnostic; genetic disorder;
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                                                                                                                                                                                                                     23; Length 3371;
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                                                                                                                                                                                                                                                                           GTTCCGCTCACTCCATGGTGTCTGAGTGCCTGT
                                                                                                                                                                                           A; 918 C; 907 G; 704 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           novel human diagnostic protein #25114.
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                                                                                                                                                                                                                                                                                                                                                                                           CTCCCAGCTCTACCTTTACTC 201
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                                                                                                                                                                                                                    Score 143.4; DB Pred. No. 1e-28;
                                                                                                                                                                                                                                                Mismatches
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                                                                                                                                                                                                                                    Pred.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ВР
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NA; 318
                                                                                                                                                                                                                   71.3%;
96.1%;
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                                                                                                                                                                                          Sequence 3371 BP; 842
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diagnostics, forensics
responsible for genet:
biodiversity
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P-PSDB; ABG25123.
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Best Local Similarity
Matches 147; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAS89310 standard;
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Complexities are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving to restore normal activity of (II) or to treat disease states involving an expension of the sequence and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations or responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and compositic coding sequences of the invention.

Comino acid sequences of the invention.

Comino acid sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pot_sequences.
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medical imaging; diagnostic; genetic disorder;
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                                                                                                                                                                                                                                                                                                                                                                          DB 23;
                                                                                                                                                                                                                                                                                                                                          Sequence 318 BP; 52 A; 109 C; 76 G; 81 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA encoding novel human diagnostic protein #8078.
                                                                                                                                                                                                                                                                                                                                                                           Query Match 71.2%; Score 143.2; DB 23; Best Local Similarity 92.1%; Pred. No. 7.7e-29; Matches 151; Conservative 0; Mismatches 13;
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23-AUG-2000; 2000US-0649167
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P-PSDB; ABG08087.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; chromosome
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The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polymcleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques of restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating of sites expression or biological activity. The polypeptide and polymucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. PAS64197-PAS94564 represent novel human diagnostic coding sequences of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTGACCTTCTTCCACAACTACAATTTCCGCTCACTCCATGGTGTCTGAGTGCCTGTTC 1519
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           data for this patent did not appear in the printed was obtained in electronic format directly from WIPO /published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                38 CTGACCCCCCCCCCCTCTGGCAGTTCCCCTCTACCTCCATGGTGTCTGAGTGCCTGTTC
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                                      8078; 103pp; English.
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92.1%;
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ID ABL40755 standard; cl
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Best Local Similarity
Matches 151; Conser
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                                      Claim 1;
 \begin{array}{c} 0 \times 0 & 0 & 0 & 0 & 0 & 0 \\ 0 \times 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 \times 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \end{array} 
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The invention relates to a novel transient receptor potential (TRP)-like calcium channel, designated TLCC-2 and polynucleotides encoding the TLCC-2. TLCC-2 can be expressed by standard recombinant methodology. The TLCC-2 polypeptide, polynucleotides and modulators are useful for treating central nervous system disorders such as neurodegenerative disorders for example Alzheimer's disease, Parkinson's disease, multiple sclerosis, amyotrophic lateral sclerosis, progressive supranuclear palsy, epilepsy, Creutzfeldt-Jakob disease, AIDS-related dementia, familial infantile convulsions, paroxysmal choreoathetosis, psychiatric disorders such as depression, anxiety, schizophrenia, psychoses, mania or phobic disorders, learning or memory disorders such as amnesia, age-related memory loss, or a neurological disorder such as migraine. The molecules are also useful to treat a pain disorder. The present sequence represents the coding sequence of the human TLCC-2 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         58 GCAGITCCGCICACTCTCCAIGGIGITCTGAGTGCCTGTTCTCGCTCATCAATGGGGACGA 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CATGITTGTGACGITCGCCCCCATGCAGGCGCCAGGCCGCAGCAGCAGCCTGGTGTGGCT 177
                                                                                                                                                                                                                                New nucleic acid designated TLCC-2 encodes a transient receptor potential-like calcium channel and is useful to diagnose and treat pain disorders and central nervous system neurodegenerative and neurological
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human, TLCC-2; TRP-like calcium channel; membrane excitability, nociception; nootropic; neuroprotective; antiparkinsonian; cytostatic; hypotensive; antidepressant; analgesic; anticonvulsant; tranquiliser; Parkinson's disease; Huntington's disease; multiple sclerosis; gilles de la Tourette's syndrome; autonomic function disorder; cancer; neuroleptic; gene therapy; Alzheimer's disease; CNS disorder; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1356 GAAGITCCGCTCACTCTCCAIGGIGTCTGAGTGCCTGTTCTCGCTCATCAATGGGGACGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1416 CATGTTTGTGACGTTCGCCGCCATGCAGCGCAGCAGGCCCGCAGCAGCAGCTGGTGTGCTT
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99.3%; Pred. No. 1.7e-28;
iive 0; Mismatches 1;
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1..1740
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                                                                                                                            Curtis RAJ, Silos-Santiago I;
                      07-APR-2000; 2000US-0544797.
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Best Local Similarity 99.3
Matches 143; Conservative
                                                             (CURT/) CURTIS R A J. (SILO/) SILOS-SANTIAGO I.
                                                                                                                                                                   WPI; 2002-338931/37.
P-PSDB; ABB07816.
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Tue

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Wang

Ren F, W Zhang J;

Qian XB, 1 Yang Y, · 2

for treating disorders

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The invention relates to human nucleic acids (AAIS7798-AAI61369) and the encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrembolytic activity, cancer diagnosis and therapy, drug screening,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              for receptor activity, arthritis and inflammation, leukaemias and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          assays for receptor access.
C.N.S disorders.
Note: The sequence data for this patent did not form part
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                                                                                                                                                                                                                                                                                            Chen R, Ma Y, (Xu C, Xue AJ, R, Drmanac RT;
                                                                                                                                                                                                                                                                                                                                                                                                              polypeptides, useful system injuries -
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 1; SEQ ID NO 1439; 10078pp; English
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Wehrman T, Xı
Goodrich R,
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; 2000US-0662191.
; 2000US-0693036.
; 2000US-0727344.
                                                                                                          2000US-0488725.
2000US-0552317.
2000US-0598042.
2000US-0620312.
                                                                         26-DEC-2000; 2000WO-US34263
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Wehrman
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                                                                                                                                                                                                                                                            (HYSE-) HYSEQ INC
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         WO200153312-A1
                                                                                                                                                                         03-AUG-2000;
14-SEP-2000;
19-OCT-2000;
                                                                                                                                                                                                                            29-NOV-2000;
                                                                                                                                          09-JUL-2000;
19-JUL-2000;
                                                                                                          21-JAN-2000;
25-APR-2000;
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Wang J, I
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                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to the protein and coding sequences of human transient receptor potential (TRP)-like calcium channel protein-2 (TLCC-2). The sequences can be used in the treatment of TLCC-2 related disorders, including central nervous system disorders such as Alzheimer's, Parkinson's and Huntington's diseases, multiple sclerosis, Gilles de la Tourette's syndrome, autonomic function disorders, learning or memory disorders, pain disorders and disorders of cellular proliferation, including cancer. The present sequence is the TLCC-2
                                                                                                                                                                                                                                                                                                                           channel
amnesia,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer; peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CACTCTCCATGGTGTCTGAGTGCCTGTTCTCGCTCATCAATGGGGACGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CACTCTCCATGGTGTCTGAGTGCCTGTTCTCGCTCATCAATGGGGACGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                          potential-like calcium
s disease, depression,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   70.8%; Score 142.4; DB 24; Length 1740; 99.3%; Pred. No. 1.7e-28; tive 0; Mismatches 1; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C; 475 G; 368 T; 0 other;
                                                                                                                                                                                                                                                                                                                        transient receptor
tréating Alzheimer'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 1439
/*tag= a
/product= "TLCC-2"
/partial
                                                                                                                                                                                                                                                                                                                                                                                      Claim 1; Fig 1; 148pp; English
                                                                                                                                                                                                                                      Silos-Santiago I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CDNA; 1741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; 578
                                                                                                                                                                     07-APR-2000; 2000US-0544797
                                                                                                                                                                                                   (MILL-) MILLENIUM PHARM INC
                                                                                                                                     US11442
                                                                                                                                                                                                                                                                                                                    Novel isolated human trans
protein-2 useful for treat
pain disorder, and cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CATGTTTGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CATGTTTGTGA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 1740 BP; 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GCAGTTCCGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTTCTCCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTTCTCCCAGC
                                                                                                                                    06-APR-2001; 2001WO-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GAAGTTCCGCT
                                                                                                                                                                                                                                                                      WPI; 2002-010913/01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
Matches 143; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3236
AAI59236 standard;
                                                                                                                                                                                                                                                                                     P-PSDB; AAM51858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      coding sequence
                                                                    WO200177331-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sapiens
                                                                                                                                                                                                                                      RAJ,
                                                                                                   18-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1476
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                                                                                                                                                                                                                                      Curtis
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Matches
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Isolated polypeptide with a human membrane associated protein sequence is useful for the diagnosis, prevention and treatment of cell proliferative, autoimmune/inflammatory, neurological and
                     membrane associated protein, MEMAP; diagnosis; cytostatic; flammatory; anticonvulsant; immunosuppressive; antidiarrheic; teriosclerotic; gene therapy; cell proliferative disorder; nune disorder; inflammatory disorder; neurological disorder; inflammatory disorder; neurological disorder; inflammatory disorder; atherosclerosis;
                                                                                                                                                                                                                                 Bandman O, Burford N, Azimzai Y;
associated protein MEMAP-13 encoding cDNA.
                                                                                                                                                                                                                                                                                                                                               Claim 5; Page 157-158; 173pp; English.
                                                                                                                                                                                                                                          Patterson C;
                                                                                                                                                         2000WO-US22315.
                                                                                                                                                                             99US-0149641.
99US-0164203.
                                                                                                                                                                                                           (INCY-) INCYTE GENOMICS INC
                                                                                                                                                                                                                                                                                                                            qastrointestinal disorders
                                                                                                                                                                                                                                 Tang YT,
                                                                                                                                                                                                                                                              WPI; 2001-168860/17
P-PSDB; AAB74707.
                               antiinflammatory, a
                                                    autoimmune disorder
gastrointestinal di
epilepsy; diarrhoea
                                                                                                                                                                                                                                 Yue H, Tan
TR, Lu DAM,
 membrane
                                                                                                                 WO200112662-A2
                                                                                                                                                        14-AUG-2000;
                                                                                              sapiens.
                                                                                                                                                                             17-AUG-1999;
09-NOV-1999;
                                                                                                                                    22-FEB-2001
                                                                                                                                                                                                                                          Baughn MR,
                                                                                                                                                                                                                                Lal P,
                                                                                              Homo
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AAF81741 to AAF81777 encode the human membrane associated proteins

(MEMAP) given in AAB74695 to AAB74731. MEMAPs have cytostatic,
antiinflammatory, anticonvulsant, immunosuppressive, antidiarrheic and
antiarteriosclerotic activities, which can be used in gene therapy.

MEMAPs and agonist of MEMAPs can be used to treat a disease or condition
associated with decreased expression of functional MEMAP and antagonists
of MEMAP are used to treat a disease or condition associated with
coverexpression of functional MEMAP. These disorders include cell
coverexpression of functional MEMAP. These disorders include cell
disorders. The MEMAP polynucleotides and proteins are also used for the
disorders. The MEMAP polynucleotides and proteins are also used for the
disorders and be used to screen for compounds which specifically
bind MEMAP including antibodies, oligonucleotides, proteins and small
complecules. MEMAP polynucleotides can be used to prepare transgenic
animals which can be studied to provide information concerning human
disease. Anti-MEMAP antibodies are useful in immunoassays for the
chection of MEMAP protein and can be used as antagonists to treat or
prevent a disorder associated with MEMAP. Polynucleotides encoding MEMAP
can be delivered to target cells with genetic abnormalities with respect
to the expression of MEMAP to treat or prevent a disorder associated 1522 anderrodedecentecadedeceadedeceaceaceadedecenterader 1582 o. 117 TCACTCTCCATGGTGTCTGAGTGCCTGTTCTCGCTCATCAATGGGGACGA reacterecardererereagecererreregereareageage Gaps DB 22; Length 2052; ó Score 142.7,
Pred, No. 1.8e-28;
.....rches 1; Indels 375 A; 670 C; 582 G; 425 T; 0 other; 0; Mismatches 70.8%; Score 142.4; CTCTACCTTTACTC 201 99.3%; Conservative CTTCTCCCAG Query Match Best Local Similarity Matches 143; Conser GCAGTTCCG GAAGITCCG CATGITIGI CATGTTTGT Sequence 2052 BP; MEMAP 1463 23 178 118 1523 to the with ME

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The invention relates to novel genes (ABL89449-ABL90853) and proteins (ABB89040-ABB9044) useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant)agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune disorders e.g. Addison's disease, allergies, autoimmune charowitis, disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) cardiovascular disorders such as myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy, and (f) infectious diseases such as viral, bacterial, fungal and parasitic infections.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1463 GAAGTTCCGCTCACTCTCCATGGTGTCTGAGTGCCTGTTCTCGCTCATCATGGGGACGA 1522
                                                                                                                                                                                                                                                                                                        Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral; antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer; vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic; cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder; neurological disease; infection; human; secreted protein; gene; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          58 GCAGTICCGCTCACTCTCCATGGTGTCTGAGTGCCTGTTCTCGCTCATCAATGGGGAACGA 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel 1405 isolated polypeptides, useful for diagnosis, treatment and prevention of neural, immune system, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, renal and proliferative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 24; Length 2092;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 4; SEQ ID NO 920; 2081pp + Sequence Listing; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 70.8%; Score 142.4; DB 24; Length Best Local Similarity 99.3%; Pred. No. 1.8e-28; Matches 143; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 2092 BP; 399 A; 676 C; 590 G; 425 T; 2 other;
1583 CTTCTCCCAGCTCTACTC 1606
                                                                                                                                                                                                                                                                Human polynucleotide SEQ ID NO 920.
                                                                                                                                   ABL90358 standard; cDNA; 2092 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (HUMA-) HUMAN GENOME SCI INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-MAY-2001; 2001WO-US16450.
                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Rosen CA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-122018/16.
P-PSDB; ABB89949.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO200190304-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
                                                                                                                                                                                                                           24-MAY-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Birse CE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        disorders
                                                                                            RESULT 10
                                                                                                                     ABL90358
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The polynucleotide sequences given in AAB19052 to AAA39088 encode the human secreted proteins given in AAB08891 to AAB08984. The human secreted proteins can have activities based on the tissues and cells they are expressed in. Examples of the activities are: cytostatic; anti-proliferative; immunosuppressive; antibacterial; and vulnerary. The secreted proteins and their related polynucleotide sequences are useful for diagnostic and therapeutic methods useful for diagnosing and treating disorders related to the secreted proteins. The proteins, and polynucleotide sequences may be useful for treating disorders of the immune system, hyperproliferative disorders, infectious disease, regeneration of tissues, for chemotaxis and for screening molecules that bind to the proteins. The proteins or polynucleotide sequences may be used as food additives or preservatives, to increase or decrease storage used as food additives or preservatives, to increase or decrease storage
CATGITIGIGACGITCGCCGCCAIGCAGCGCAGCAGCCGCAGCAGCCAGCTGGTGGCT 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              capabilities, fat content, lipid, protein, carbohydrate, vitamins, minerals, co-factors or other nutritional components. Agonists or antagonists of the proteins may be used to prevent scar tissue growth during wound healing, and hyper-vascular diseases. AAA39043 to AAA39051 and AAB08890 are sequences used in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                       Human, secreted protein, cytostatic, anti-proliferative, vulnerary, immunosuppressive, antibacterial, diagnosis, immune system, chemotaxis, hyperproliferative disorder; infectious disease; tissue regeneration, screening, food additive, preservative, wound healing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human secreted proteins and coding sequences useful in diagnostic and therapeutic methods for disorders such as immune system or proliferative disorders, related to the proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ni.J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Young PE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                400 A; 673 C; 589 G; 426 T; 6 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Lafleur DW,
                                                                                                                                                                                                                                                                                                           secreted protein gene 16 SEQ ID NO:26.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              D, Shi Y,
Soppet DR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1; Page 331-332; 416pp; English.
                                                                                           1583 CTTCTCCCAGCTCTACCTTTACTC
                                                                                                                                                                                                  CDNA; 2094 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SCI INC.
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                                                                                                                                                                                                                                                                                                                                                                                                               disease; ss
                                                                                                                                                                                                                                                                       entry)
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98US-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2000-283538/24
P-PSDB; AAB08906.
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                                                                                                                                                                                                                                                                      (first
                                                                                                                                                                                                 AAA39067 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 2094 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ruben SM, Rose
Komatsoulis G,
                                                                                                                                                                                                                                                                                                                                                                                                               hyper-vascular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200017222-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
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02-OCT-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22-SEP-1999;
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118
                                      1523
                                                                                                                                                                                                                                    AAA39067;
                                                                       178
                                                                                                                                                                                                                                                                                                           Human
                                                                                                                                                               RESULT 1
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Score 142.4; DB 21; Length 2094;

70.8%;

Query Match

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1523 CATGITIGIGACGITICGCCGCCAIGCAGGCGCAGGGGCCGCAGCAGCAGCAGCTGGTGTGTT 1582
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                                                                                               1522
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a novel transient receptor potential (TRP)-like calcium channel, designated TLCC-2 and polynucleotides encoding the TLCC-2. TLCC-2 can be expressed by standard recombinant methodology. The TLCC-2 polypeptide, polynucleotides and modulators are useful for treating central nervous system disorders such as neurodegenerative disorders for example Alzheimer's disease, Parkinson's disease, multiple sclerosis, amyotrophic lateral sclerosis, progressive supranuclear palsy, epilepsy, Creutzfeldt-Jakob disease, AIDS-related dementia, familial infantile convulsions, paroxysmal choreoathetosis, psychiatric disorders such as depression, anxiety, schizophrenia, psychoses, mania or phobic
                                                                117
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Transient receptor potential like calcium channel; TRP; TLCC-2; human; neuroprotective; analgesic; nootropic; antiparkinsonian; antidepressant; cerebroprotective; anxiolytic; antimanic; anticonvulsant; gene therapy; calcium signaling; gene; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New nucleic acid designated TLCC-2 encodes a transient receptor potential-like calcium channel and is useful to diagnose and treat pain disorders and central nervous system neurodegenerative and neurological
                                                                                1463 GAAGTICCGCICACTCTCCATGGIGICTGAGGCCTGTTCTCGCTCATCATGGGGACGA
                                                                58 GCAGIICCGCICACCICCAIGGIGICIGAGIGCCIGIICICGCICAICAAIGGGGACGA
                                                                                                                                 118 CATGITIGIGACGITCGCCGCCATGCAGGCGCCAGCAGCCAGCAGCAGCCAGCTGGGTGTGGCT
                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /product= "TLCC-2"
/note= "transient receptor potential-like calcium
channel"
                              .,
                               Indels
1.8e-28;
           1583 CTTCTCCCAGCTCTACCTTTACTC 1606
                                                                                                                                                                                                   CTTCTCCCAGCTCTACCTTTACTC 201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers 141..1883
                                                                                                                                                                                                                                                                                                                                                                                                                       Human TLCC-2 protein encoding cDNA.
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                                                                                                                                                                                                                                                                                                                       ABL40754 standard; cDNA; 2095 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Silos-Santiago I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          07-APR-2000; 2000US-0544797.
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                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
               Best Local Similarity 99.3
Matches 143; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (CURT/) CURTIS R A J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2002-338931/37.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            P-PSDB; ABB07816
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US2002035056-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21-MAR-2002.
                                                                                                                                                                                                                                                                                                                                                                                        03-JUL-2002
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                                                                                                                                                                                                                                                                                                                                                      ABL40754;
                                                                                                                                                                                                     178
                                                                                                                                                                                                                                                                                       RESULT 12
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1555
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disorders, learning or memory disorders such as amnesía, age-related memory loss, or a neurological disorder such as migraine. The molecules are also useful to treat a pain disorder. The present sequence represents a cDNA encoding the human TLCC-2 polypeptide.
                                                                                                                                                                                                                                   117
                                                                                                                                                                                                                                                                                                                   CGTTCGCCGCCATGCAGGCGCAGCAGGCCGCAGCAGCCTGGTGTGGCT 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    nociception, nootropic, neuroprotective, antiparkinsonian, cytostatic, hypotensive, antidepressant, analgesic, anticonvulsant, tranquiliser, Parkinson's disease, Huntington's disease, multiple sclerosis, Gilles de la Tourette's syndrome, autonomic function disorder, cancer, neuroleptic, gene therapy, Alzheimer's disease, CNS disorder, ss.
                                                                                                                                                                                                                                                                        GAAGTICCGCICACICICCAIGGIGICIGAGIGCCIGIICICGCICAICAAIGGGGACGA
                                                                                                                                                                                                                                  CACTCTCCATGGTGTCTGAGTGCCTGTTCTCGCTCATCAATGGGGACGA
                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; TLCC-2; TRP-like calcium channel; membrane excitability;
                                                                                                                                                  DB 24; Length 2095;
                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            um channel TLCC-2 coding sequence #1.
                                                                                                                                                                                          1; Indels
                                                                                                       Sequence 2095 BP; 388 A; 682 C; 594 G; 431 T; 0 other;
                                                                                                                                                Score 142.4; DB 2 Pred. No. 1.8e-28;
                                                                                                                                                                                          Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                     TCTACCTTTACTC 201
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141..1883
/*tag= a
/product= "TLCC-2"
                                                                                                                              70.8%; Scc.
99.3%; Pred
0, M
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       entry)
                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human TRP-like calci
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                                                                                                                                                                                                                                                                                                                   CATGTTTGTGA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    standard;
                                                                                                                                               Query Match
Best Local Similarity
Matches 143; Conser
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The present invention relates to the protein and coding sequences of human transient receptor potential (TRP)-like calcium channel protein-2 (TLCC-2). The sequences can be used in the treatment of TLCC-2 related disorders, including central nervous system disorders such as

Novel isolated human transient receptor potential-like calcium channel protein-2 useful for treating Alzheimer's disease, depression, amnesia

Claim 1; Fig 1; 148pp; English.

protein-2 useful for pain disorder, and

P-PSDB; AAM51858.

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                                                                                                                                                                                                                                       58 GCAGTTCCGCTCACTCCATGGTGTCTGAGTGCCTGTTCTCGCTCATCAATGGGGACGA 117
Alzheimer's, Parkinson's and Huntington's diseases, multiple sclerosis, Gilles de la Tourette's syndrome, autonomic function disorders, learning or memory disorders, pain disorders and disorders of cellular proliferation, including cancer. The present sequence is the TLCC-2 coding sequence including the 3' UTR.
                                                                                                                                                                                                                                                                                                                                                    1556 CATGITIGIGACGITCGCCGCCATGCAGGCGCAGCAGGCCGCAGCAGCCTGGTGGCT
                                                                                                                                                                                                                                                              1496 GAAGTTCCGCTCACTCTCCATGGTGTCTCAGAGTGCCTGTTCTCGCTCATCAATGGGGACGA
                                                                                                                                                                                                                                                                                                                 CATGITHETGACGITCGCCGCCATGCAGGCGCCAGGCCCGCAGCCAGCCTGGTGTGGCCT
                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutation responsible for genetic disorders or other traits and to assess
                                                                                                                                                          DB 24; Length 2095;
                                                                                                                                                                                                 ·;
                                                                                                                                                          70.8%; Score 142.4; DB 24; Length larity 99.3%; Pred. No. 1.8e-28; Conservative 0; Mismatches 1; Indels
                                                                                                                       Sequence 2095 BP; 388 A; 682 C; 594 G; 431 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA encoding novel human diagnostic protein #25122.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 1; SEQ ID No 25122; 103pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                  CTTCTCCCAGCTCTACCTTTACTC 1639
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tang YT;
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23-AUG-2000; 2000US-0649167.
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P-PSDB; ABG25131.
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                                                                                                                                                          Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200175067-A2.
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              aberrant protein expression or biological activity. polynucleotide sequences have applications in .cs, gene mapping, identification of mutations tic disorders or other traits to assess biodiversity types of data and products dependent on DNA and ... AAS64197-AAS94564 represent novel human
                                                                                    quences of the invention.

ata for this patent did not appear in the printed as obtained in electronic format directly from WIPO published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human, nootropic, immunosuppressant, cytostatic, gene therapy, cancer, peripheral nervous system, neuropathy, central nervous system, CNS, Alzheimer's, Parkinson's disease, Huntington's disease, haemostatic, amyotrophic lateral sclerosis, Shy-Drager Syndrome, chemotactic, chemokinetic, thrombolytic, drug screening, arthritis, inflammation,
                                                                                                                                                                                                                       CCATGGTGTCTGAGTGCCTGTTCTCGCTCATCAATGGGGACGA
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                                                                                                                                                                                                                                             cacrerceargagararecererrecerereareagagaga
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Zhang J;
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Yang Y,
                                                                                                                                                 C; 210 G; 107 T; 0 other;
                                                                                                                                                                       Score 140.8; DB 2:
Pred. No. 3.8e-28;
0; Mismatches 2
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Xue AJ,
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    and
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                                                                                                                                                                                                                                                                                                                                                                                                     CDNA; 1619
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25-APR-2000; 2000US-0552317.
09-JUL-2000; 2000US-0598042.
19-JUL-2000; 2000US-0620312.
03-AUG-2000; 2000US-0653450.
14-SEP-2000; 2000US-0662191.
19-OCT-2000; 2000US-0693036.
29-NOV-2000; 2000US-0727344.
                                                                                                                                                                      70.0%;
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Wehrman T,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    entry)
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Alzheimer's; Parkinson'
amyotrophic lateral scl
                                     diagnostics, forensics responsible for geneticand to produce other tramino acid sequences. diagnostic coding sequence: The sequence dattern specification, but was at ftp.wipo.int/pub/pul
                                                                                                                                                                    Query Match
Best Local Similarity
Matches 142; Conserval
                                                                                                                                                635 BP; 147
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                                                                                                                                                                                                                                                                                          CATGITIGICA
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                                                                                                                                                                                                                                                                      CATGTTTGTGA
                                                                                                                                                                                                                      GCAGITCCGCI
                                                                                                                                                                                                                                             GAAGTTCCGCT
              disorders involving
The polypeptide and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2001-442253/47.
P-PSDB; AAM41866.
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AA161022/c
ID AA161022 standard;
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Wang Z,
Zhou P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO200153312-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           leukaemia;
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Wang
Zhao
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The invention relates to human nucleic acids (AAIS7798-AAI61369) and the encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and
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                                                                                                                                                                                                                                                                                                                                                                     Note: The sequence data for this patent did not form part of the printed specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCAGTICCGCTCACTCTCCATGGTGTCTGAGTGCCTGTTCTCGCTCATCAATGGGGACGA
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                      treating disorders
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 131.4; DB 22; Length
Pred. No. 1.4e-25;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1619 BP; 350 A; 450 C; 518 G; 301 T; 0 other;
                      for
                      useful
                                                                          Claim 1; SEQ ID NO 5011; 10078pp; English
                nucleic acids and polypeptides, us sentral nervous system injuries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      October 27, 2003, 12:34:14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              65.4%;
ilarity 98.6%;
Conservative
                                     such as central nervous
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
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Matches 143;
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| SIDS1/gcgdata/geneseqn.emb1/NA1980.DAT:*
| SIDS1/gcgdata/geneseqn.emb1/NA1981.DAT:*
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DT 07-NOV-2001 (first entry)
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B Human immune/haematopoietic antigen genomic sequence SEQ ID NO:28638.
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KW Human; immune, haematopoietic; immune/haematopoietic antigen; cancer;
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KW Cytostatic; gene therapy; vaccine; metastasis; ds.
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MO200157182-A2.
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PN WO20015000; 2000US-0179065.
PR 17-JAN-2000; 2000US-018628.
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(HUMA-) HUMAN GENOME SCI INC

Rosen CA, Barash SC, Ruben SM;

WPI; 2001-483426/52.

Nucleic acids encoding human immune/hematopoietic antigen polypeptides, useful for preventing, diagnosing and/or treating cancers and useful for preventing, metastasis -

Disclosure; SEQ ID NO 28638; 3071pp + Sequence Listing; English

AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I) amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic activity, and can be used in gene therapy and vaccine production. (I) proteins and polynucleotides may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate (I) expression. For example, they may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome

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that affect the activity of (I) by expressing inactive proteins or to supplement the patients own production of (I). Additionally, (I) polynucleotides may be used to produce the secreted (I), by inserting the nucleic acids into a host cell and culturing the cell to express the protein. (I) proteins and polynucleotides may be used to prevent, diagnose and treat immune/haematopoietic-related diseases, especially cancers and cancer metastases of haematopoietic-derived cells. AAK64703 to AAK87694 represent human immune/haematopoietic antigen genomic sequences from the present invention. AAK54942 to AAK54950 and AAM82169 represent sequences used in the exemplification of the present invention.
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(HUMA-) HUMAN GENOME SCI INC.

Rosen CA, Barash SC, Ruben SM;

WPI; 2001-483426/52

Nucleic acids encoding human immune/hematopoietic antigen polypeptides, useful for preventing, diagnosing and/or treating cancers and metastasis -

Disclosure; SEQ ID NO 28639; 3071pp + Sequence Listing; English

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AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
activity, and can be used in gene therapy and vaccine production. (I)
broteins and polynucleotides may be used in the prevention, diagnosis and
treatment of diseases associated with inappropriate (I) expression. For
example, they may be used to treat disorders associated with decreased
contraction by rectifying mutations or deletions in a patient's genome
that affect the activity of (I) by expressing inactive proteins or to
polynucleotides may be used to produce the secreted (I), by inserting
the nucleic acids into a host cell and culturing the cell to express the
protein. (I) proteins and polynucleotides may be used to prevent,
diagnose and treat immune/haematopoietic-related diseases, especially
cancers and cancer metastases of haematopoietic antigen genomic
concers and cancer metastases of haematopoietic antigen genomic
sequences from the present invention. AAK54942 to AAK54950 and AAM82169
corpresent sequences used in the exemplification of the present invention.
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Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO
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DNA; 33147 BP

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Human; immune; haematopoietic; immune/haematopoietic antigen; cancer; cytostatic; gene therapy; vaccine; metastasis; ds.
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PR 14-5EP-2000; 2000US-0232400.
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PR 22-5EP-2000; 2000US-0244178.
PR 22-5EP-2000; 2000US-0244178
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AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
activity, and can be used in gene therapy and vaccine production. (I)
creatment of diseases associated with inappropriate (I) expression. For
example, they may be used to treat disorders associated with decreased
creatment of diseases associated with inappropriate (I) expression. For
example, they may be used to treat disorders associated with decreased
creatment the patients own production of (I). Additionally, (I)
couplement the patients own produce the secreted (I), by inserting
the nucleic and bost cell and culturing the cell to express the
protein. (I) proteins and polynucleotides may be used to prevent,
diagnose and treat immune/haematopoietic-related diseases, especially
cancers and cancer metastases of haematopoietic-derived cells. AAK64703
to AAK87694 represent human immune/haematopoietic antigen genomic
sequences from the present invention. AAK54942 to AAK54950 and AAM82169
represent sequences used in the exemplification of the present invention.
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                                                                                                                                                                                                                                                                                               Nucleic acids encoding human immune/hematopoietic antigen polypeptides, useful for preventing, diagnosing and/or treating cancers and metastasis -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16316 AGAGACAGCCATGAAGATAACTAGCTGAGGCCAGGTACAGTGGCTCATGCCTATAATCCC
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                   08-DEC-2000; 2000US-0251856.
08-DEC-2000; 2000US-0251868.
08-DEC-2000; 2000US-0251869.
08-DEC-2000; 2000US-0251989.
08-DEC-2000; 2000US-0251990.
11-DEC-2000; 2000US-0254097.
05-JAN-2001; 2001US-0259678.
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AAD52898 standard; DNA; 47999 BP

AAD52898 ID

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           TTYH2; therapy; cancer; tumour; cytostatic;
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           Human; tweety homologue 2; diagnostic marker; gene; ds
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to human tweety homologue 2 (TTYH2) polypeptide and polynucleotide sequence. TTYH2 is useful for producing an antigen-binding molecule that is immuno-interactive with the polypeptide. The agent is useful for manufacturing a medicament for restoring a normal level and/or functional activity of TTYH2 expression in a patient, and for treating or preventing cancer or tumour. TTYH2 sequences may also be used to provide both drug targets and regulators to promote or inhibit one or more activities, and to provide diagnostic markers for cancers. The present sequence is human TTYH2 gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               251 ATTAAAATCAACAGCTGTGGCTGGGCACGGTGGCTCACGCTATAATACCAGCACTTTGG 310
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New human tweety homolog 2 polypeptides and polynucleotides, useful for producing an antigen-binding molecule that is immuno-interactive with the polypeptide or as diagnostic markers for cancers
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P-PSDB; AAE34613.
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RESULT 6
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Pred. No. 1.2e-40;
0; Mismatches 56
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                                                                                                                                                                                                              AAGB; antiinflammatory; antiasthmatic; ARDS; COPD; COAD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      446 GCTGAGGCAGGAGGATCGCTTGAGTCCGGGAGGTTGAGGCTGCAGTAAGCTATGACCACG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                40774 TCACCTGAGGTTAGAAGTTTGAGACCAGCCTGGGCAACATGACAAAACCCCGTCTCTACT
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                                                                                                                                                                                                                                  inflammatory disease, obstructive airways disease, dyspnea; emphysem; adult respiratory distress syndrome; chronic bronchitis; eosinophil; chronic obstructive pulmonary disease; pneumoconiosis; chronic obstructive airways disease; gene; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel polypeptide encoded by disease associated gene, useful for treating an inflammatory or obstructive airways disease e.g. asthma
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                                                                                                                                                                       Human asthmajassociated gene AAGB genomic DNA #1.
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13.9%; Score 208.4; DB 2.
Best Local Similarity 81.2%; Pred. No. 5.5e-40;
Matches 255; Conservative 0; Mismatches 56
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(NOVS ) NOVARTIS-ERFINDUNGEN VERW GES MBH.
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                                             ABA98944 standard; DNA; 50000
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RESULT 7
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                                                               related polynucleotide SEQ ID NO 10242.
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Note: The sequence data for this patent did not form part of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nucleic acids encoding 3224 human nervous system antigen polypeptides, useful for preventing, diagnosing and/or treating nervous system cancers and metastases -
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                                       GTCCCAGCTACTCAGGAGGCTGAGGCAGGAGGATCGCTTGAGTCCCGGGAGGTTGAGGCTG
                                                                 4004 ATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCCCAGGAGGTGGAAGTTG
                                                                                          CAGTAAGCTATGACCACGCTGCTGCACCTGGGTGACAGAGTGAGACCCTGTCTC
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PR 25-SEP-2000; 2000US-023499.

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PR 25-SEP-2000; 2000US-02499.

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PR 25-SEP-2000; 2000US-024447.

PR 26-SEP-2000; 2000US-0244
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13.9%; Score 208.2; DB 22; Length 15765; 79.5%; Pred. No. 4e-40; ive 0; Mismatches 63; Indels 4; Gaps

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Nucleic acids encoding 3224 human nervous system antigen polypeptides, useful for preventing, diagnosing and/or treating nervous system cancers and metastases -

NO 10607; 1701pp + Sequence Listing; English SEQ Disclosure;

The invention relates to novel genes (ABA11004-ABA21534) and proteins

(ABB14678-ABB18001) useful for preventing, treating or ameliorating

medical conditions e.g. by protein or gene therapy. The genes are

isolated from a range of human tissues disclosed in the specification.

The nucleic acids, proteins, antibodies and (ant) agonists are useful

in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast

and ovarian cancer and other cancers of the adrenal gland, bone, bone

marrow, breast, gastrointestinal tract, liver, lung, or urogenital;

(b) immune disorders e.g. Addison's disease, allergies, autoimmune

chaemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's

disease, multiple sclerosis, rheumatoid arthritis and ulcerative

colitis; (c) cardiovascular disorders such as myocardial ischaemias;

(d) wound healing; (e) neurological diseases e.g. cerebral anoxia and

epilepsy; and (f) infectious diseases such as viral, bacterial, fungal

and parasitic infections.

Note: The sequence data for this patent did not form part of the

printed specification, but was obtained in electronic format directly

from WIPO at ftp.wipo.int/pub/published_pct_sequences.

A; 3137 C; 3376 G; 4699 T; 0 other; 4553 ВР 15765 Seguence

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Score 208.2; DB Pred. No. 4e-40; Mismatches
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Query Match 13.9%;
Best Local Similarity 79.5%;
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Nucleic acids encoding 3224 human nervous system antigen polypeptides, useful for preventing, diagnosing and/or treating nervous system cancers and metastases

Disclosure; SEQ ID NO 11340; 1701pp + Sequence Listing; English.

The invention relates to novel genes (ABA11004-ABA21534) and proteins (ABB14678-ABB18001) useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant)agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital, (b) immune disorders e.g. Addison's disease, allergies, autoimmune hammene thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) cardiovascular disorders such as myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f) infectious diseases such as viral, bacterial, fungal and parasitic infections.

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Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                             AAAACCCTGTCTCTACTAAAAAGTGCAAAATTAGCCGGATATGGTGGTGCACACCTGTA
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                                                                                   4553 A; 3137 C; 3376 G; 4699 T; 0 other;
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Ruben SM;

Polynucleotides encoding digestive system antigens, useful for diagnosing, treating, preventing and/or prognozing disorders of digestive system, particularly cancer and cancer metastases -

NO 3221; 986pp; English.

The present invention provides the protein and coding sequences of a number of human digestive system antigens. These can be used in the diagnosis, treatment and prevention of digestive system disorders, including cancer, Meckel's diverticulum, bacterial or parasitic infections, appendicitis, Hirschsprung's disease, chronic colitis or ulcerative colitis. The present sequence is a genomic DNA fragment encoding a digestive system antigen of the invention.

6416 A; 4554 C; 4517 G; 5957 T; 0 other; ВР 21444

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Gaps
Query Match 13.9%; Score 208.2; DB 22; Length 21444; Best Local Similarity 78.5%; Pred. No. 4.5e-40; Matches 249; Conservative 0; Mismatches 68; Indels 0; Conservative 0; Mismatches 68; Indels 0; Conservative 0; Mismatches 68; Indels 0; Conservative 0; Mismatches 68; Indels 0; Conservative 0; Conserva
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human immune/hematopoietic antigen polypeptides, diagnosing and/or treating cancers and
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                    2000US-0246611.
2000US-0246613.
2000US-0249207.
2000US-0249209.
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2000US-0251989.
2000US-0251990.
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                                                                                                                                                                                                                                                                                                                                     Nucleic acids encoding useful for preventing, metastasis -
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                    08-NOV-2000;
08-NOV-2000;
17-NOV-2000;
17-NOV-2000;
17-NOV-2000;
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L7-NOV-2000;
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17-NOV-2000;
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AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (1)
amino acid sequences given in AAM82170 to AAM91921. (1) have cytostatic
activity, and can be used in gene therapy and vaccine production. (1)
proteins and polynucleotides may be used in the prevention, diagnosis and
treatment of diseases associated with inappropriate (1) expression. For
example, they may be used to treat disorders associated with decreased
expression by rectifying mutations or deletions in a patient's genome
that affect the activity of (1) by expressing inactive. proteins or to
supplement the patients own production of (1). Additionally, (1)
polynucleotides may be used to produce the secreted (1), by inserting
the nucleic acids into a host cell and culturing the cell to express the
protein. (1) proteins and polynucleotides may be used to prevent,
diagnose and treat immune/haematopoietic-related diseases, especially
cancers and cancer metastases of haematopoietic antigen genomic
to AAK87694 represent human immune/haematopoietic antigen genomic
sequences from the present invention. AAK54942 to AAK54950 and AAM82169
cepresent sequences used in the exemplification of the present invention.

Sequence 9359 BP; 1726 A; 2741 C; 3065 G; 1827 T; 0 other;

Gaps DB 22; Length 9359; 5 13.8%; Score 207.8; DB 22; Length 77.1%; Pred. No. 4.2e-40; ative 0; Mismatches 77; Indels Conservative Query Match Best Local Similarity Matches 266; Conserv

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555 AAAAAAAAAAAAAAAACAAGIATGC 580
                                                                                                                                                                                                                                                                                                                                                                                         62 AAAAAAAAAAAAAAAAAAAAAAGC 37
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AAK86026/c
ID AAK86026 standard; DNA; 54877
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2000US-0180628.
2000US-0184664.
2000US-0186350.
2000US-0189874.
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2000US-0214886.
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30-JUN-2000; 2000US-0215135.
07-JUL-2000; 2000US-0216647.
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04-FEB-2000;
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17-MAR-2000;
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                                                                                                                                                                                                                                                                                                                                                                              cer; cytostatic; carcinogen; pharmacodyanamic marker;
ker; gene; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel isolated nucleic acid molecule associated with cancerous state of prostate cancer, useful for detecting presence of prostate cancer, useful
                                                                                                                                                                                             TTTGGGAGGCTGAGGAGGAAGGATTGCTTGAGGCCAGAAGTTTGAGACC
                                                                     CTTTGGGAGGCTGGGGGGGGAGGATCACTTGAGCCCAGGAGTTCAAGACC
                                                                                                                  7388 AGCCTGGGCAACATAGGGAGACCCCGTCTCTACAAAAATAAAAATTAGCTGGGTATGG
                                                                                                                                                                                GGCTGCAGTAAGCTATGACCACGCTGCTGCACTCCACCCTGGGTGACAGA
            GCTGGGATTAAAATCAACAGCTGTGGCTGGGCACGGTGGCTCACGCCTAT
                              recescarrerasacererreassecassecarrescrearsecrer
                                                                                                                                       TIGITGETCCCAGCTACTCAGGAGGCTGAGGCAGGAGGATCGCTTGAGTCC
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                                                                                              ACGIAGGAAGACCTIGICICIACGCACA - - AACAAATTAGCIGGGCGIGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to an isolated nucleic acid molecule (I) compa nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of th specification or its complement. (I) is useful for:
(a) assessing whether a patient is afflicted with prostate cancer;
(b) monitoring the progression of prostate cancer in a patient;
(c) assessing the efficacy of a test compound to inhibit prostate cancer in a patient;
                                                                                                                                                                                                                                            prostate expression marker cDNA 44762.
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16-MAR-2000; 2000US-1
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09-JUN-2000; 2000US-2
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            235 AGCCTGAGCT
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GGGAGACCCT
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pharmacogenomic mar
                               7268 AACCCCACAT
                                                     AATACCAGCA
                                                                    AATCCCAGCA
                                                                                                                                      TGGCGTGCCC
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(d) assessing the efficacy of a therapy for inhibiting prostate cancer in a patient;
(e) selecting a composition for inhibiting prostate cancer in a patient;
(f) assessing the prostate cell carcinogenic potential of a compound;
(g) determining whether prostate cancer has metastasized in a patient;
(h) assessing the aggressiveness or indolence of prostate cancer in a

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            122 CCATAATCATACCGCTGCACTCCAGCCTGGGCGACAGGAAAACTCTGCCTCAAAAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                362 AAATTCAGCGAGCAGACCGGGCACAGTGGCTCACGCCCATAATCCCAACACATTGGGGAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               302 CCGAGGCACAAGGCCTGCTTGAGCCCAGGAGTTCGAGACCAGCCTAGTCAACATAGTAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   255 AAATCAACAGCTGTGGCTGGGCACGGTGGCTCACGCCTATAATACCAGCACTTTGGGAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTGAGGAGGATTGCTTGAGGCCAGAAGTTTGAGACCAGCCTGGGCCACGTAGGAAG
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cytostatic; gene therapy; vaccine; metastasis; ds.
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                                                                                                                                                                                                                                            patient;
(I) is also useful as a pharmacodyanamic or pharmacogenomic marker.
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                                                                                                                                                                                                                                                                                                                                                                                                                                Match 13.8%; Score 207.6; DB 23; Length Local Similarity 77.3%; Pred. No. 1.7e-40; les 252; Conservative 0; Mismatches 74; Indels
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Nucleic acids encoding human immune/hematopoietic antigen polypeptides, useful for preventing, diagnosing and/or treating cancers and metastasis
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AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I) amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic activity, and can be used in gene therapy and vaccine production. (I) proteins and polynucleotides may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate (I) expression. For example, they may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of (I) by expressing inactive proteins or to supplement the patients own production of (I). Additionally, (I)

Disclosure, SEQ ID NO 40838; 3071pp + Sequence Listing; English.

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32261 AAAATTCAAGGGGAGGCTGGCACGGTGGCTCACGCCTGTAATACCAGTGCTTTGGGAG 32202
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polynuclectides may be used to produce the secreted (I), by inserting the nucleic acids into a host cell and culturing the cell to express the protein. (I) proteins and polynuclectides may be used to prevent, diagnose and treat immune/haematopoietic-related diseases, especially cancers and cancer metastases of haematopoietic-derived cells. AAK64703 to AAK87694 represent human immune/haematopoietic antigen genomic sequences from the present invention. AAK54942 to AAK54950 and AAM82169 represent sequences used in the exemplification of the present invention.
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Copyright (c) 1993 - 2003 Compugen Ltd.
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Homo sapiens

Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

I (bases 1 to 173126)

E DoE Joint Genome Institute and Stanford Human Genome Center.

In (bases 1 to 173126)

In Submitted (03-MG-1999) Production Sequencing Facility, DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA

Submitted (01-JUM-2002) DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA

Submitted (12-JUL-2002) DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA

Submitted (12-JUL-2002) DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA

On Jul 12, 2002 this sequence Version replaced gi:21306637.

Draft Sequence Produced by DOE Joint Genome Institute

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                                          TTGACAACAAAGCACACAGTGGGCGGATCCCCATCAGCCTGGAGACCCAGGCCCACATCC
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Finishing Completed at Stanford Human Genome Center
www-shgc.stanford.edu
Quality: Phrap Quality >=40 99.8% of Sequence;
Estimated Total Number of Errors is 0.3.
NOTE: This insert is not the entire sequence of the clone.
clipped at the overlap with AC119396. The number of bases overlapped is 20300.
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Location/Qualifiers
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/organism="Homo sapiens"
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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches
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runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.
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1052: gap of unknown length
1153: 2714: contig of 1562 bp in length
2715: 2814: gap of unknown length
2715: 4101: contig of 1562 bp in length
4102: 4201: gap of unknown length
4202: 7146: contig of 2945 bp in length
7247: gap of unknown length
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9907: contig of 2945 bp in length
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1. 155645
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/mol_type="genomic DNA"
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/chromosome="19"
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AC021153

Homo sapiens chromosome 19 clone RP11-492L14, WORKING DRAFT
SEQUENCE, 20 unordered pieces.
AC021153 GI:8570240
HTG; HTGS PHASE1; HTGS DRAFT.
Homo sapiens (human)
SM Homo sapiens (human)
HTG; HTGS PHASE1; HTGS DRAFT.
Homo sapiens (human)
HTG; HTGS PHASE1; HTGS DRAFT.
Homo sapiens (human)
SM Homo sapiens (human)
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Homo sapiens (human)
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                                                141849 AATGAGATCCCGGACTGCTATACCTTCAGCGTCCTGGTGAGGCCCCCGGGGACCCACAG 141908
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     CGACTGCTATACCTTCAGCGTCCTGGTGAGGCCCCCCGGGAACCCACAG 1260
                                                                                                                                               rtccagggcagggaccrggrcagggagrgfcrcrrggaggacrggccaagg 1320
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Sequencing vector: M13; 82%
Sequencing vector: plasmid; 18%
Chemistry: Dye-primer ET; 77% of reads
Chemistry: Dye-terminator Big Dye; 23% of reads
Assembly program: Phrap; version 0.990319
Consensus quality: 141755 bases at least Q40
Consensus quality: 148292 bases at least Q30
Consensus quality: 148291 bases at least Q20
Insert size: 167000; agarose-fp
Insert size: 153745; sum-of-contigs
Quality coverage: 3.76 in Q20 bases; agarose-fp
Quality coverage: 4.16 in Q20 bases; sum-of-contigs
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PRI 26-DEC-2000 7.

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5 of 8
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 579)
Bargal, R., Avidan, N., Ben-Asher, E., Olender, Z., Zeigler, M., Frumkin, A., Raas-Rothschild, A., Glusman, G., Lancet, D. and Bach, G.
                                 GCCACTGGGGACTCTGGGGGAGACCAGCCTGGCCTCCCCGGCCCCCTGAGGCCCTTCCCTG
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134902. .155645
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a 41582 c 42192 g 35297 t 199
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Pred. No. 0;
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Best Local Similarity 99.7%;
Matches 1497; Conservative 0
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Borsani, G.
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Submitted (02-AUG-2
and Medicines 1101
Revised by author
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                                                                                                                                                       tted (13-SEP-2000) Molecular Genetics, The Weizmann Institute ience, F. O. Box 26, Rehovot 76100, Israel Location/Qualifiers
1. .579
| longanism="Homo sapiens" | Mol type="genomic DNA" | Ab xref="taxon:9606" | 129. .225 | gene="MCOLN1" | humber=6 | 423. .522 | gene="MCOLN1" | humber=6 | 423. .522 | gene="MCOLN1" | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | humber=7 | hum
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Identification of the gene causing mucolipidosis type IV

Nat. Genet. 26 (1), 118-123 (2000)
20428196
10973263
2 (bases 1 to 579)
Bargal,R., Avidan,N., Ben-Asher,E., Olender,A., Zeigler,M.,
Frumkin,A., Raas-Rothschild,A., Glusman,G., Lancet,D. and Bach,G.
Direct Submission
Submitted (13-SEP-2000) Molecular Genetics, The Weizmann Institute
of Science, P. O. Box 26, Rehovot 76100, Israel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTTGGGGCCGGAAGGGACCCGAAGACGCCCCTGACCCTCACCCGAGCCTC
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splicing; ML4 gene; mucolipidin.
; (human)
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Pred. No. 3e-115;
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FCCCVAVIYLGYCFCGWIVLGPYHVKFRSLSMVSECLFSLINGDDMFVTFAAMQAQQG
RSSLWMLFSQLYLYSFISLFIYMVLSLFIALITGAYDTIKHPGGAGAEESELQAYIAQ
CQDSPTSGKFRRGSGSACSLLCCCGRDPSEEHSLLVN"

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                                                                                                                                      Bassi, M.T., Manzoni, M., Monti, E., Pizzo, M.T., Ballabio, A. and Borsani, G.
Cloning of the gene encoding a novel integral membrane protein, mucolipidin-and identification of the two major founder mutations causing mucolipidosis type IV
Am. I. Hum. Genet. 67 (5), 1110-1120 (2000)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            711 CTCTTGGAAAGCAGCTCCAGTTACAAGAACCTCACGCTCAAATTCCACAAGTACTGCCTG
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S (bases 1 to 790)

S algal, R., Avidan, N., Ben-Asher, E., Olender, A., Zeigler, M., Frumkin, A., Raas-Rothschild, A., Glusman, G., Lancet, D. and Bach, G. Direct Submission

L Submitted (13-SEP-2000) Molecular Genetics, The Weizmann Institute of Science, P. O. Box 26, Rehovot 76100, Israel

Location/Qualifiers

1. 790

/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

267. .434
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AC020978
AC020978.10 GI:28933544
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Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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Bach, G.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutele
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

(bases 1 to 790)
Bargal,R., Avidan,N., Ben-Asher,E., Olender,Z., Zeigler,M.
Frumkin,A., Raas-Rothschild,A., Glusman,G., Lancet,D. and Identification of the gene causing mucolipidosis type IV
Nat. Genet. 26 (1), 118-123 (2000)
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exons 3 and
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Pred. No. 1.7e-47;
0; Mismatches 0; Indels
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gene,
    301 GAGGCAGCACTAGGCACTCTCACCCCAGCA 332
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Homo sapiens mucolipin 1 (MCOLN1)
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AF305574.1 GI:11991200
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/gene="MCOLN1"
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/number=3
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Best Local Similarity 99.6%;
Matches 238; Conservative
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Homo sapiens (human)
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Pred. No. 1.4e-74;
); Mismatches 0; Indels
                                                                                                                                                                                                                                                                            332 bp DNA linear (MCOLN1) gene, exon 5.
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/db_xref="taxon:9606"
155. 263
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/number=5
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100.0%; Prf
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Homo sapiens mucolipin
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                                                                                                                                                                                                                            RESULT 6
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Finishing Completed at Stanford Human Genome Center and Los Alamos
National Laboratory
www-shgc.stanford.edu
Quality: Phrap Quality >=40 100% of Sequence;
Estimated Total Number of Errors is 0.1.
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1-DEC-2002) Production Sequencing Facility, DOE Joint
tute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
to 164293)
nome Institute, Stanford Human Genome Center and Los
                                                                                                                                                                             2-JAN-2000) Production Sequencing Facility, DOE Joint tute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
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94598, USA
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theria; Primates; Catarrhini; Hominidae; Homo.
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Creek, CA
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Direct Submission
Submitted (13-MAR-2003) DOE C
Drive, Walnut Creek, CA 94596
On Mar 13, 2003 this sequence
Draft Sequence Produced by DC
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linear PRI 09-JAN-2002 7, complete sequence.

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The sequence of this clone was established sequencing collaboration between the NHGRI Project (Eric D. Green, Director), John D.
                                                                    DNA
from
                                                                  155521 bp
BAC clone RP11-723C11
                                                                                                        GI:15290496
                                                                                                                                   Homo sapiens (human)
Homo sapiens
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AC069335
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.4e-46;
es 54; Indels 0;
17985: contig of 3387 bp in length 18085: gap of unknown length 22074: gap of unknown length 22074: gap of unknown length 25453: gap of unknown length 33338: contig of 3279 bp in length 33438: gap of unknown length 35089: contig of 1651 bp in length 35189: gap of unknown length 35189: contig of 1651 bp in length 38939: gap of unknown length 49430: contig of 10491 bp in length 38939: gap of unknown length 52527: contig of 2997 bp in length 52627: gap of unknown length 52627: gap of unknown length 52627: gap of unknown length 58167: gap of unknown length 60432: gap of unknown length 60432: gap of unknown length 60532: gap of unknown length 62413: gap of unknown length 62413: gap of unknown length 73030: gap of unknown length 74038: contig of 1688 bp in length 74038: gap of unknown length 74038: gap of unknown length 74039: gap of unknown length 74039: gap of unknown length 74039: gap of unknown length 74039: gap of unknown length 74039: contig of 2022 bp in length 74039: contig of 1844 bp in length 74039: contig of 1844 bp in length 78524: gap of unknown length 78524: gap of unknown length 78524: gap of unknown length 78524: gap of unknown length 78524: gap of unknown length 78524: gap of unknown length 78524: gap of unknown length 78524: gap of unknown length
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82.6%; Pred. No. 2.4e
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Direct Submission
Submitted (09-JAN-2002) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
On Aug 25, 2001 this sequence version replaced gi:13431253.
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Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi, Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
1 (bases 1 to 155521)
Sulston, J.E. and Waterston, R.
Toward a complete human genome sequence
Genome Res. 8 (11), 1097-1108 (1998)
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L Unpublished (2001)

The sequence of Homo sapiens BAC clone RP11-723C11

Unpublished (2001)

E 3 (bases 1 to 155521)

S Asaes 1 to 155521)

S Waterston, R.H.

Direct Submitssion

University School of Medicine, 4444 Forest Park Parkway, St. Loui Materston, R.H.

E 4 (bases 1 to 155521)

S Waterston, R.H.

Direct Submission

L Submitted (25-AUG-2001) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Loui Waterston, R.H.

Direct Submission

S Waterston, R.H.

Direct Submission

S Waterston, R.H.

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S Waterston, R.H.

Direct Submission

S Waterston, R.H.

Direct Submitted (26-AUG-2001) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Loui Mo 63108, USA

E 6 (bases 1 to 155521)

S Waterston, R.H.

MO 63108, USA

E 6 (bases 1 to 155521)
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Web site: http://genome.wustl.edu/gsc
Contact: sapiens@watson.wustl.edu
------ Summary Statistics
Center project name: H_NH0723C11
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as part of a mapping and Chromosome 7 Mapping McPherson in the

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   note="similar to Bos taurus EST AW660583 (NID:g7426410)"
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/rpt_family="MER2_type"
7465. .7709
/rpt_family="Alu"
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6848. .6883
/rpt_family=" (TTTTC) n"
6856. .7151
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/rpt_family="Li"
5220 - 5522
/rpt_family="Alu"
5495 - 5522
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5495 - 5522
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9398. .9590
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7854. .8153
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8600. .8736
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8737. .9045
/rpt_family="Alu"
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/rpt_family="(A)n"
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                                                                                                                                         SOURCE INFORMATION:

The RPCI-11 human BAC library was made from the blood of one male donor, as described by Osoegawa, K., Woon, P.Y., Zhao, B., Frengen, E., Tateno, M., Catanese, J.J. and de Jong, P.J. (1998) An improved approach for construction of bacterial artificial chromosome libraries. Genomics 51:1-8. The clone may be obtained either from Research Genetics, Inc. (http://www.resgen.com) or Pieter de Jong and coworkers at the Roswell Park Cancer Institute (http://bacpac.med.buffalo.edu)

VECTOR: pBACe3.6

NEIGHBORING SEQUENCE INFORMATION:
The clone sequenced to the left is RP11-785H2; the clone sequenced to the right is RP4-592P3, 2000 bp overlap. Actual start of this clone is at base position 1 of RP11-723C11; actual end is at base position 46589 of RP4-592P3.
Department of Genetics (Washington University), and the Washington University Genome Sequencing Center. For additional information about the map position of this sequence, see http://www.nhgri.nih.gov/DIR/GTB/CHR7, send mailto:egreen@nhgri.nih.gov, or see http://genome.wustl.edu/gsc
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| Organism="Homo sapiens" |
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| Ab_xref="texon:9606" |
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i; Hominidae; Homo.
                                                                                          GCTACTCAGGAGGCTGAGGCAGGATCGCTTGAGTCCGGGAGGTTGA
                                                                                                                                     GGCTGCAGTAAGCTATGACCACGCTGCACTCCACCTGGGTGACAGAGTGAGAGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rammata; buneria; rimates; catainni; nominidae; homo.
I (bases 1 to 193267)
Waterston,R.H.
The sequence of Homo sapiens clone
Unpublished
2 (bases 1 to 193267)
Waterston,R.H.
Direct Submission
Submitted (07-SEP-2001) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St.
MO 63108, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NOTE: This is a 'working draft' sequence. It currently consists of 50 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Center: Washington University Genome Sequencing Center Center code: WUGSC
Web site:http://genome.wustl.edu/gsc/index.shtml
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Homo sapiens chromosome UNK clone RP11-795E24
PROGRESS ***, 50 unordered pieces.
AC093695

AC093695.1 GI:15487543

HTG; HTGS PHASE1.
Homo sapiens (human)
M Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Verte Mammalia; Eutheria; Primates; Catarrhini; Hon I (bases 1 to 193267)
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79.1%;
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Homo sapiens
                        Conservative
    Best Local Similarity
                        Matches 265;
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AC084756/C
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159066: gap of unknown length
7 171696: contig of 12630 bp in length
7 171796: gap of unknown length
7 183547: contig of 11751 bp in length
8 183647: gap of unknown length
8 193267: contig of 9620 bp in length.
Location/Qualifiers
                                                                                                                                                                                                                                                                   1. .1129

| note="assembly_name:Contig19" | 1244. 4089 | 2744. 4089 | 2744. 4089 | 2744. 4089 | 2744. 4089 | 2744. 4089 | 2744. 4089 | 2744. 4089 | 2744. 4089 | 2744. 4089 | 2742. 4089 | 2742 | 25968 | 25968 | 25968 | 25968 | 25968 | 25968 | 25968 | 25968 | 25968 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 2748 | 27
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/wol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="UNK"
/clone="RP11-795E24"
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Length 193267;

DB 2;

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Homo sapiens chromosome 15 clone RP11-120K9 map 15q21.2, complete sequence.
AC084756 AC027538
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Rowen, L., Madan, A., Qin, S., Baradarani, L., Birditt, B., Bloom, S.,
Dors, M., Dickhoff, R., Fleetwood, P., Harrison, G., Kaur, A., Madan, A.,
Nesbitt, R., Traicoff, R. and Hood, L.
Direct Submission
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3 (bases 1 to 166138)
Rowen, L., Madan, A., Qin, S., Baradarani, L., Birditt, B., Bloom, S., Burke, J., Dors, M., Fleetwood, P., Kaur, A., Madan, A., Nesbitt, R., Pate, D. and Hood, L.
                                                                                                                                                                                                                                                                                                                                        363 CCACGTAGGAAGACCTTGTCTACGCACAAAATTAGCTGGGCGTGGTGGCGTGCCC 422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Direct Submission
Submitted (23-JUN-2001) Multimegabase Sequencing Center, Institute
for Systems Biology, 4225 Roosevelt Way NE, Suite 200, Seattle, WA
                                                                                        243 CTGCTGGGATTAAATCAACAGCTGTGGCTGGGCACGGTGGCTCACGCCTATAATACCAG 302
                                                                                                                                                                                                                  CACTITGGGAGGCTGAGGAGGAAGGATTGCTTGAGGCCAGAAGTTTGAGACCAGCCTGGG 362
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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Rowen, L., Madan, A., Qin, S., Baradarani, L., Birditt, B., Bloom, S., Bare, D. and Hood, L.
Sequencing of human chromosome 15 D15S146-D15S117 region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4668 CAACATGGCAAAATCCTGTCTCTACCAAATACAAATTAGCTGGGTGTGATGGTGCATGC
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                               Gaps
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On Jun 23, 2001 this sequence version replaced gi:13489137
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Contact: leerowen@systemsbiology.org
Drafting center: WIBR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Drafting center: Wibr
Sequencing vector: pUC18; L08752
Chemistry: Dye-terminator Big Dye; 90% of reads
Chemistry: Dye-primer Big Dye; 10% of reads
                             Indels
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0; Mismatches 70;
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PRI 28-JAN-2000

Seguence

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Bruce, D., Mundt, M., Doggett, N., Munk, C., Saunders, E., Robinson, D., Jones, M., Buckingham, J., Chasteen, L., Thompson, S., Goodwin, L., Bryant, J., Tesmer, J., Meincke, L., Longmire, J., White, S., Tatum, O., Campbell, C., Fawcett, J., Maltbie, M., Bussod, M., Sutherland, R., McMurry, K., Han, C. and Deaven, L.

Direct Submission

Submitted (06-MAY-1999) Center for Human Genome Studies, DOE Joint Genome Institute, Los Alamos National Laboratory, MS M888, Los Alamos, NM 87545, USA

Alamos, NM 87545, USA

Bruce, D., Mundt, M., Doggett, N., Munk, C., Saunders, E., Robinson, D., Jones, M., Buckingham, J., Chasteen, L., Thompson, S., Goodwin, L., Bryant, J., Tesmer, J., Meincke, L., Longmire, J., White, S., Tatum, O., Campbell, C., Fawcett, J., Maltbie, M., Bussod, M., Sutherland, R., Direct Submission

Location, Center for Human Genome Studies, DOE Joint Genome Institute, Los Alamos National Laboratory, MS M888, Los Alamos, NM 87545, USA

On Jan 228, 2000 this sequence version replaced gi:4755165.

Location/Qualifiers

Irce

1. 162617
                                                                                                                                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 162617)

Bruce,D., Mundt,M., Doggett,N., Munk,C., Saunders,E., Robinson,D., Jones,M., Buckingham,J., Chasteen,L., Thompson,S., Goodwin,L., Bryant,J., Tesmer,J., Meincke,L., Longmire,J., White,S., Tatum,O., Campbell,C., Fawcett,J., Maltbie,M., Bussod,M., Sutherland,R., Sequencing of Human Chromosome 16q12
                               67113, complete sequence
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9319. .9424
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                                                                                                                                                                                                                                                                                                                                                                  Annotation with the
               linear
Homo sapiens chromosome 16 clone RPCI-11_AC007501
AC007501 GI:6806839
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              complement (9975...10143)
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complement (10170...10450)
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Large Scale Sequence Analysis and
Comparison Analysis (SCAN) System
                                                                                                                                                                                                                                                                                                                           (bases 1 to 162617)
                                                                                                  Homo sapiens (human)
Homo sapiens
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                                         Note: Data from overlapping BACs AC022403 [drafting center UWMSC], AC012170 [drafting center UWMSC], AC012170 [drafting center UWMSC], and AC010770 [drafting center WIBR] was added for finishing.

Location/Qualifiers

1. .166138
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RP11-507J18, and RP11-127P14 was added and the consequence was determined from RP11-120K9 to the ext
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 221.8; DB 9; Length 166138;
Pred. No. 7.6e-46;
0; Mismatches 52; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                     program: Phrap; version 0.990399
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Best Local Similarity 83.0%;
Matches 253; Conservative
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RESULT 13 AC007501/c

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frame 0"
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555 .30908
pt family="MLT1"
887 .35200
pt family="MLT1"
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ote="GRAIL 2 excellent exon, family="Alu"
mplement (42177 .42575)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         395. .48565

Ste="GRAIL 2 excellent exon, f.

308. .49210

St family="Alu"

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plement (57662. .58024)
t family="11"
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Best Local Similarity 73.4%; Pred. No. 2.2e-45;
Matches 295; Conservative 0; Mismatches 105; Indels 2;
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Pred. No. 2.2e-45;
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AC007490.6 GI:18057071
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* NOTE: This record contains 74 individual
* sequencing reads that have not been assembled into
* contigs. Runs of N are used to separate the reads
* and the order in which they appear is completely
* arbitrary. Low-pass sequence sampling is useful for
* identifying clones that may be gene-rich and allows
* overlap relationships among clones to be deduced.
* However, it should not be assumed that this clone
* will be sequenced to completion. In the event that
* the record is updated, the accession number will
* be preserved.

* 543: contig of 543 bp in length
                                                                                                                 : http://www-seq.wi.mit.edu
sequence_submissions@genome.wi.mit.edu
-- Project_Information
coject_name: L28118
lone_name: 2021_0_4
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Pred. No. 3.1e-45;
0; Mismatches 78; Indels 3; Gaps
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             Query Match
Best Local Similarity 77.5%;
Matches 279; Conservative
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